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## Summary

An experimental investigation was conducted to expand the data base and knowledge of flow fields in cavities over the subsonic and transonic speed regimes. A rectangular, three-dimensional cavity was tested over a Mach number range from 0.30 to 0.95 and at Reynolds numbers per foot from  $1.0 \times 10^6$  to  $4.2 \times 10^6$ . Two sizes of cavities with length-to-height ratios (l/h) of 4.4 and 11.7 and with rectangular and nonrectangular cross sections were tested. Extensive static pressure data on the model walls were obtained, and a complete tabulation of the pressure data is presented. The boundary layer approaching the cavity was turbulent, and the thickness was measured with a total pressure rake. The static pressure measurements obtained with the deep-cavity configuration (l/h = 4.4) at Reynolds numbers greater than  $3.0 \times 10^6$  per foot showed large fluctuations during the data sampling time. The data showed much less unsteadiness at lower Reynolds numbers for the deep cavity and for all conditions tested with the shallow cavity. Although mean static pressure distributions have been used in past cavity analyses at transonic free-stream conditions, the data presented in this report indicate that consideration of the instantaneous pressure distributions is necessary. The data also indicate that the shallow-cavity static pressure measurements were sensitive to the thickness of the boundary layer entering the cavity.

#### Introduction

Many investigations, both experimental (refs. 1–9) and computational (refs. 10–17), have been conducted to study the flow field inside two- and three-dimensional rectangular cavities. Although investigations have been conducted from the subsonic to the hypersonic regimes, most of the effort has concentrated on the supersonic speed regime for application to military aircraft. Because of a renewed interest in the internal carriage of stores, a basic study of cavity flow at subsonic and transonic speeds has been conducted.

Three types of mean flow over the cavity (fig. 1) exist at supersonic speeds. The first type of mean flow occurs when the cavity is "deep" and is termed open-cavity flow. In open-cavity flow, the flow essentially bridges the cavity, and a shear layer is formed over the cavity. A weak shock can form near the leading edge of the cavity as a result of the flow being compressed slightly by the shear layer. The second type of mean flow occurs when the cavity is "shallow" and is termed closed-cavity flow. In closed-cavity flow, the flow separates at the forward face of the cavity, reattaches at some point along the cavity

floor, and separates again before reaching the rear cavity face. In this flow field two distinct separation regions are created; one is downstream of the forward face, and one is upstream of the rear face. The third mean flow occurs in the region where the flow field changes from closed- to open-cavity flow and is termed transitional-cavity flow. Stallings and Wilcox (ref. 4) have found that transitional flow occurs in supersonic free-stream conditions for l/h ratios between approximately 10 and 13.

The open- and closed-cavity flow fields can have undesirable effects on the store or cavity at supersonic speeds. For the open-cavity flow field, high-intensity tones can be produced which can induce structural vibration (ref. 9). When closed-cavity flow fields are present, the cavity pressure gradient can impact adversely the store separation characteristics (ref. 18).

The type of flow field which is present in the cavity must be known to ensure good carriage and separation characteristics for the store. Research on cavity flow in the transonic speed regime has been limited (refs. 1, 2, and 6). Most of this work focused on cavities with l/h ratios between 4 and 10. The pressure distributions from these cavity studies showed that at transonic speeds the flow field inside a cavity was similar to the flow field that developed at supersonic speeds and that the three types of mean flow occurred for approximately the same values of l/h.

To accomplish the internal carriage and release of stores at transonic speeds, the cavity flow field must be understood more fully. This investigation was conducted to expand the data base and knowledge of flow fields in cavities for subsonic and transonic regimes and to study the effects of Reynolds number on cavity flow fields. A rectangular, threedimensional cavity model (ref. 19) was tested in the David Taylor Research Center (DTRC) 7- by 10-Foot Transonic Wind Tunnel (TWT) at Mach numbers from 0.30 to 0.95 and at Reynolds numbers from  $1.0 \times 10^6$  to  $4.2 \times 10^6$  per foot. Two sizes of cavities (l/h = 4.4 and 11.7) were tested and extensive static pressure data on the model were obtained. The boundary layer approaching the cavity was turbulent and had been thickened artificially. The boundarylayer thickness was measured with a rake 2 in. upstream of the cavity.

# Symbols

Symbols in parentheses are found in tables IV–XI.

 $C_p$  (CPxxx) coefficient of pressure,  $\frac{p-p_{\infty}}{q_{\infty}}$ 

 $C_p^*$  critical pressure coefficient

h	cavity depth, ft
l	cavity length, ft
$M_{\infty}$	free-stream Mach number
p	measured surface static pressure, psf
$p_{\infty}$	free-stream static pressure, psf
$p_t$	measured local total pressure, psf
$p_{t\infty}$	free-stream total pressure, psf
$q_{\infty}$	free-stream dynamic pressure, psf
$R_{\infty}$	free-stream unit Reynolds number, per ft
t	time, sec
$T_{t\infty}$	free-stream total temperature, ${^\circ}\mathrm{F}$
$U/U_{\infty}$	ratio of local velocity to free-stream velocity
w	cavity width, ft
x	distance in streamwise direction, ft (see fig. 4)
y	distance in spanwise direction, ft (see fig. 4)
z	distance normal to flat plate, ft (see fig. $4$ )
δ	boundary-layer thickness, in.

# Experimental Methods

## Wind-Tunnel Description

The transonic cavity flow model was tested in the DTRC 7- by 10-Foot TWT. The 7- by 10-Foot TWT is a continuous-flow, transonic facility that is capable of operating over a Mach number range from 0.2 to 1.17. The tunnel can obtain Reynolds numbers per foot from approximately  $1.0 \times 10^6$  to  $5.5 \times 10^6$ . A diagram that shows the operating range of the 7-by 10-Foot TWT is provided in figure 2. The solid circles (fig. 2) denote the conditions at which the present test has been conducted. More information concerning this facility is documented in reference 19.

## **Model Description**

A rectangular, three-dimensional cavity was mounted in a flat plate; a photograph of the model mounted in the tunnel is shown in figure 3. A flat plate was chosen as the parent body to allow a well-defined two-dimensional flow field to develop ahead of the cavity. The model was supported in the center of the tunnel by six legs. The forward two legs

on each side were swept to distribute longitudinally the model cross-sectional area for blockage considerations. Two guy wires were attached to opposite sides of the plate to increase lateral stiffness and stability. The 12:1 elliptical contour of the leading edge and the trailing-edge flap were chosen to reduce the leading-edge pressure gradient. (The trailing-edge flap had little effect on the leading-edge pressure distribution.) A fairing was placed around the cavity on the underside of the plate for aerodynamic purposes.

The cavity had a length of 3.5 ft, a width of 0.8 ft, and a maximum depth of 0.8 ft. The model dimensions are shown in figure 4. The cavity floor could be moved from the maximum depth of 0.8 ft to a depth of 0.3 ft or to the plate surface. The configuration with no cavity, the floor at the plate surface, was used when the boundary-layer thickness was measured. The cavity l/h values tested were 4.4 for the deeper configuration (h=0.8 ft) and 11.7 for the more shallow configuration (h=0.3 ft).

In addition to the basic rectangular box cavity, three additional cavity configurations were tested. Two of these configurations were variations on the empty cavity shape and were made by inserting wooden blocks inside the cavity (fig. 5). The front blocks consisted of two triangular blocks placed in the forward corners of the cavity to give the cavity leading edge a pointed shape (fig. 5(a)). The rear block was a single block placed in the aft portion of the cavity to create a ramp (fig. 5(b)). The intent of changing the cavity shape was to affect the pressure waves inside the cavity. The tones inside the cavity were expected to be reduced if the wave front could be disrupted. (Heller and Bliss (ref. 9) give a detailed description of the pressure wave activity inside a cavity.) Dynamic transducers had been installed on the cavity floor to enable frequency spectra in the cavity to be calculated, but the measurements obtained were in error; therefore, the data were not reduced. Due to time constraints. the deep cavity was tested only with blocks in the forward portion of the cavity. The shallow cavity was tested in both configurations, with either the front blocks or with a rear block. The shallow cavity also was tested in a third configuration, which was a sawtooth fence installed at the cavity leading edge (fig. 6). The purpose of a leading-edge fence was to help the flow span the length of the cavity, thereby reducing unfavorable store separation characteristics associated with the closed (shallow) cavity. To have the most effect on the shear layer, experience has shown that the fence height should be between 3/4 to 1 times the boundary-layer thickness. The expected boundary-layer thickness was 0.8 in. for this test, so a fence height of 0.7 in. was chosen for the test.

A table that summarizes the model configurations tested is given below.

Configuration	l/h
Empty	4.4, 11.7
Front blocks	4.4, 11.7
Rear block	11.7
Fence	11.7

The model was instrumented with 262 static pressure orifices. A majority of these orifices were concentrated on the cavity walls. Figure 7 shows the regions on the model where the orifices were located, and table I provides the static pressure orifice locations. (Note that the orifice number was assigned by instrumentation hookup; therefore, the numbers are not consecutive.) Not all orifices were available for all configurations tested.

#### **Test Conditions**

The model was tested in the DTRC 7- by 10-Foot TWT at Mach numbers from 0.3 to 0.95 and at Reynolds numbers ranging from  $1.0 \times 10^6$  to  $4.2 \times 10^6$ per foot. The Reynolds number was varied for fixed Mach numbers between 0.60 and 0.90. Table II provides a summary of the nominal test conditions.

#### Measurements

Surface static pressures. The model static pressures were measured using electronically scanned pressure (ESP) transducers that were referenced to the tunnel static pressure; these transducers had a range of  $\pm 5$  psid and a quoted accuracy of  $\pm 0.01$  psi. The tunnel static and total pressures were measured using individual quartz transducers with a quoted accuracy of 0.03 percent of the full-scale range (30 psia).

During the experimental investigation, a  $C_p$  versus x/l plot of the pressures on the deep cavity (l/h = 4.4) centerline was displayed and updated continuously. Observation of the static pressure data indicated the possibility of a pressure wave in the cavity. Earlier tests (refs. 1–5 and 7–9) did not report this unsteady characteristic of static pressure data; in fact, for supersonic free-stream conditions, discussions with Stallings (private communication from Robert L. Stallings, Jr., NASA Langley Research Center, Hampton, Virginia, 1987) indicated the data in references 4 and 5 were very repeatable. The recent data reported by Dix (ref. 6) also showed the cavity static pressures to be unsteady at subsonic and transonic flow conditions.

For the experimental data reported herein, each orifice was sampled 20 times over a 1.25-sec period; these data then were averaged to produce the results for one data point. Because the data were not repeatable, several data points were taken consecutively, while test conditions were held constant. Approximately 100 data samples were taken at each test condition to obtain a representative sampling of the data.

Boundary-layer thickness. The ratio of boundary-layer thickness to cavity depth was shown to be an important parameter to match in the study of cavity flows (ref. 3). The scaled boundary-layer height was estimated to be approximately 0.8 in. at flight conditions. To obtain a boundary-layer thickness of 0.8 in. at the cavity leading edge would require approximately 5 ft of flat plate ahead of the cavity. To reduce the model weight because the plate was being made of a solid piece of aluminum, only 3 ft of plate forward of the cavity was used. An appropriate boundary-layer thickness was artificially generated by placing a heavy layer of No. 60 grit from 1 in. aft of the leading edge to 24 in. aft of the leading edge. The length of the band of grit was determined by specifying the length of the smooth surface that was required downstream of the roughened surface to allow the boundary layer to readjust. The length of the smooth surface needed to allow the boundary layer to recover was approximately 15 boundary-layer thicknesses (refs. 20 and 21).

To determine the boundary-layer thickness, the cavity floor was moved flush with the plate surface, and the total pressure through the boundary layer was measured with a rake at a point 2 in. forward of the cavity leading edge. A drawing and photograph of the rake are shown in figures 8 and 9. A  $\pm 15$  psid ESP module, referenced to tunnel static, was used to measure the total pressures through the boundary layer; the measured pressure was accurate to  $\pm 0.03$  psi.

A static pressure port also was located on the flat plate 2 in. forward of the cavity leading edge. Because the static pressure port was at the same position as the rake, the rake affected the static pressure measurement when this measurement was taken while the rake was in place. To prevent this interference, the static pressure measurement was obtained during later runs in which the same test conditions were used and the boundary-layer rake had been removed.

Several methods were considered to determine the boundary-layer thickness. The disadvantages of most methods are that a curve must be faired through the boundary-layer velocity profile and that a consistent

determination of the curve intersection with the freestream velocity must be made. The curve intersection is difficult to determine with any consistency because of the asymptotic nature of the velocity profile. In this test, the boundary layer was very thick and nearly equal to the height of the boundary-layer rake, thus causing much inconsistency in the estimation of the boundary-layer thickness. The method described in reference 22 was employed in order to provide an estimate for comparison purposes. In this method, the measured total pressure  $p_t$  was plotted against z, which is the measured distance of each total pressure tube above the flat plate. (An example of the data obtained in the test is shown in figure 10.) A straight line then was faired through the last several data points inside the edge of the boundary layer, as illustrated in figure 10. The boundary-layer thickness then is defined to be the value of z where the linearly extrapolated boundary-layer total pressure reaches free-stream total pressure. (This is shown on the plot as the point where the line drawn through the measured pressures in the boundary layer intersects with the free-stream total pressure value  $p_{t\infty}$ .) To determine if this method was reasonable, the boundarylayer thickness was estimated using the traditional definition of boundary-layer thickness; the edge of the boundary layer was defined to be the point where  $U/U_{\infty} = 0.99$ . The value of  $p_t$  at  $U/U_{\infty} = 0.99$ was calculated assuming that an adiabatic and perfect flow existed and that the static pressure measured at the surface remained constant through the boundary layer. The calculated value of  $p_t$  is plotted as the solid symbol in figure 10 at the value of  $z = \delta$  estimated previously. The total pressure estimated using the conventional definition falls on the measured total pressure curve, providing assurance that the boundary-layer thickness determined by the method in reference 22 is reasonable. The actual boundary-layer thickness is probably slightly thicker than the estimation of  $\delta$  used herein. The method of reference 22 assumes that the boundary-layer pressure will increase linearly to free-stream total pressure whereas the pressure in the boundary layer actually increases asymptotically toward the free-stream value. The boundary-layer thicknesses determined using the method in reference 22 are tabulated in table III. This table shows that  $\delta$  changes little when the Reynolds number is increased. The heavy layer of grit forward of the cavity caused the boundarylayer thickness to be relatively insensitive to changes in the Reynolds number.

A majority of the runs were made with the 2-ft band of grit at the leading edge; however, in order to study the effect of a change in boundary-layer thickness, a few runs were made in the l/h=11.7

configuration with transition fixed at the flat plate leading edge, i.e., instead of using a 2-ft band of grit. In order to fix transition, a strip of No. 60 grit was sparsely distributed over a width of 0.10 in. (approximately 1 in. aft of the leading edge) in accordance with the recommendations of reference 23. These runs were made at Mach numbers from 0.30 to 0.95 and at the lowest Reynolds number tested for each Mach number (table II). Because of wind tunnel time constraints, the boundary-layer thickness was not measured for this configuration. This was a relatively simple configuration (a flat plate with turbulent flow), so it was expected that an analytical model could provide an estimate of the boundarylayer thickness. The deep cavity (l/h = 4.4) was not tested in the transition strip configuration.

Flow visualization. A schlieren flow-visualization system was set up to allow observation of the flow over the cavity region. No shock waves from the model leading edge were reflected from the tunnel wall into the cavity region at any Mach number tested.

Test plans included flow visualization inside the cavity. Fifteen-denier monofilament fluorescent minitufts with a diameter = 0.0019 in. were cemented on the inside cavity walls. One side of the cavity was plexiglass to allow photographs to be taken of the tufts inside the cavity. The mini-tufts were to be photographed during each run; however, this method was not successful because the unsteadiness inside the cavity tore these mini-tufts from the cavity walls.

Tabulated data. The pressure measurements, which were reduced to coefficient form, are presented in tables IV–XI. These tables contain the exact tunnel test conditions as well as the measured pressures. The pressure data are presented as CPxxx, where xxx refers to the orifice number. (The locations of the orifices are presented in table I.) The measured pressure tabulated for each orifice is the average of the 100 individual data samples.

## Discussion of Results

Three methods of calculating pressures are shown in figures 11–31. The first method compares individual data samples to demonstrate the variation in pressures over a 1.25-sec sampling period. (This method is noted in the legends of figs. 11–13 and 31 by "individual data samples are plotted.") The second method compares data points in which each data point is the average of 20 samples obtained over a 1.25-sec sampling period. (This method is indicated by the word "point" in the legends of figs. 14 and 16.) The third method compares results among cavity configurations, Mach numbers,

and Reynolds numbers; these data are presented as the average of all measurements taken at the specified test condition. (This method is noted in the legends of figs. 17–30 by "an average of 100 data samples is plotted.")

#### Static Pressure Unsteadiness

Figure 11 shows the variation in  $C_p$  along the cavity floor centerline for several individual samples taken during a 1.25-sec period. Each sample is an instantaneous, unaveraged record of the data. Samples were chosen to show the wide variation in instantaneous static pressure measurements. The plots show that a sizable change takes place in the magnitude and shape of the pressure distribution on the cavity floor over time. Figure 11 is representative of the deep-cavity data obtained at all Mach numbers tested for Reynolds numbers of  $3.3 \times 10^6$  per ft or greater. As the Reynolds number decreases, the unsteadiness also decreases, as illustrated by comparing the data in figures 11 and 12. Figures 11 and 12 also show that the pressure distribution is relatively smooth with no discontinuities. Notice that at  $x/l \approx 0.28$  in figure 11 and at  $x/l \approx 0.45$  in figure 12, a node with all curves passing through approximately the same point exists. This node indicates the presence of a standing wave, which may result from the interaction of the compression waves inside the cavity. Compression waves are formed as the shear layer dips into the cavity and the external flow contacts the rear cavity wall. Reference 9 gives specific details for the method by which the compression waves are formed and interact. According to Heller and Bliss (ref. 9), the second modal frequency at which a cavity oscillates is usually the predominant mode.

Less flow unsteadiness is seen for the shallow cavity than for the deep cavity (fig. 13). The increased steadiness of the flow in the shallow cavity is expected because there is no fluctuating shear layer as in a deep cavity.

## Data Repeatability

The  $C_p$  distribution down the centerline of the model is displayed in figure 14 as if the cavity were laid out flat. The coordinate system is shown in figure 4. The first portion of the plot (x/l from -1.0 to 0) is the pressure distribution from the leading edge of the plate (x/l = -0.857) to the beginning of the cavity. The next segment of the plot (z/h from 0 to -1.0) shows the pressures measured on the forward wall of the cavity, beginning near the cavity opening and moving toward the cavity floor. The next segment of the plot (x/l from 0 to 1.0) is the cavity floor, and the segment of z/h from -1.0 to 0

is the rear wall of the cavity, moving from the cavity floor toward the opening. The last segment (x/l) from 1.0 to 1.4) is the data from the orifices on the plate downstream of the cavity.

Figure 14 shows four data points taken at  $M_{\infty}$  = 0.60 and  $R_{\infty} = 3.5 \times 10^6$  for the deep-cavity configuration. Very slight differences exist in the averaged measurements toward the downstream end of the cavity floor, the aft wall, and for a short distance downstream of the cavity. The data on the model leading edge repeat very well, thus implying that the unsteadiness in the cavity flow is not due to tunnel flow instabilities. Notice also that in comparing the figure 14 data with those in figure 11, the mean data do not represent the instantaneous pressure distribution on the cavity floor. These findings are in agreement with the following statement made by Rossiter (ref. 1): "...the real flow is highly unsteady and...the (mean) flow patterns...do not necessarily correspond to features which could be observed in the flow at any instant of time." For further comparison, the total variation in the 100 individual, unaveraged measurements as compared to the average measurement for  $M_{\infty} = 0.60$  and  $R_{\infty} = 3.5 \times 10^6$  is shown in figure 15. These data show the importance of obtaining a large enough data sampling to define properly the cavity mean pressure distribution.

A plot of the repeatability of the data points for the shallow cavity is shown in figure 16. In this figure, a representative pressure distribution with 20 samples of data averaged for a shallow-cavity configuration is provided at  $M_{\infty}=0.60$  and  $R_{\infty}=3.5\times10^6$ ; these are the same conditions used for the deep cavity. Figure 16 shows that the mean data for the shallow cavity can be considered repeatable, as was expected from the small variation in samples over time (fig. 13).

To study the effects of such parameters as Mach and Reynolds numbers on cavity flow, data are presented (figs. 17–30) as the average of the 100 individual pressure samples obtained for a given orifice and test condition.

### Mach Number Effects

Data for various Mach numbers at nearly constant Reynolds numbers are compared in figures 17 and 18. Figure 17 shows data for the deep-cavity configuration, and figure 18 shows the shallow-cavity configuration. As shown in figure 17, little difference exists between the deep-cavity pressure distributions at Mach numbers of 0.85 and 0.95. The  $C_p$  values for  $M_{\infty}=0.6$  are slightly more negative on the cavity floor than at  $M_{\infty}=0.85$  and 0.95. At  $M_{\infty}=0.3$ , the data show a much different distribution on the cavity floor. The pressure

distributions in the aft-cavity region, including the floor and wall, are more negative at  $M_{\infty} = 0.3$  than for the other Mach numbers. Although the Reynolds number at  $M_{\infty} = 0.3$  is lower than the Reynolds numbers tested for the other Mach numbers plotted, this should not affect the mean distribution, as will be discussed in the section entitled "Reynolds Number Effects." Figure 18 shows the effect of Mach number on the measured static pressure distribution for the shallow-cavity configuration. The lower Mach numbers (0.3 and 0.6) show a slight plateau-pressure region at  $x/l \approx 0.5$ ; this plateau pressure implies that the flow has impinged on the cavity floor and that the flow structure may be of the closed-cavity type at the lower Mach numbers. At a Mach number of 0.85, the  $C_p$  distribution shows no plateau through this region; the lack of a plateau is typical of transitional cavity flow. This flow trend also is seen at all Mach numbers above 0.85, although these data are not shown in figure 18.

In figures 17 and 18, the data at  $M_{\infty}=0.3$  do not form a smooth curve. The variation in the data about the mean line may have resulted from the decision to size the transducers for the high-pressure ranges. The decision resulted in values of  $C_p$  which may be in error by as much as  $\pm 0.02$ ; the trends shown in figures 17 and 18 for  $M_{\infty}=0.3$  are valid, however.

## Reynolds Number Effects

The Reynolds number effects were of interest to this test. Previous research indicated that  $\delta/l$ is an important parameter in cavity flows (ref. 3). Generally, when the Reynolds number is varied, the thickness of the boundary layer is altered; however, the thick layer of grit at the leading edge of the model caused the boundary-layer thickness to change little with an increase in Reynolds number. This thick layer of grit allowed the Reynolds number to be varied independently of the boundary-layer thickness. Figures 19 and 20 show a comparison of Reynolds numbers at a constant Mach number for the deep and shallow cavities, respectively. These plots are for  $M_{\infty} = 0.6$ , but they are representative of what occurred at all Mach numbers. The variation in  $R_{\infty}$  for this test was relatively small (approximately a factor of 3), so not much change was expected. As can be seen in the plots, very little change exists in the mean  $C_p$  distribution over the range of Reynolds numbers tested. As discussed in the section on static pressure unsteadiness, the unsteadiness of the flow was affected by even this small change in  $R_{\infty}$  for the deep-cavity configuration; for  $R_{\infty} > 3 \times 10^6$ , the deep-cavity pressures showed large fluctuations with time.

## Effects of Boundary-Layer Thickness

The shallow cavity was tested using two methods to develop the boundary layer. In the first method, the boundary layer was artificially thickened using a 2-ft band of grit downstream of the leading edge (fig. 4). In the second method, the boundary layer developed naturally after being tripped near the leading edge of the flat plate. These methods should generate different boundary-layer thicknesses, and the boundary layer that developed after being tripped at the leading edge should be thinner. Because of time constraints, the boundary-layer thickness was not measured when the leading-edge trip was used: however, with the relatively simple model configuration of a flat plate with a turbulent boundary layer, the one-seventh power law of Stratford and Beavers (ref. 24) was used to provide an estimate of the boundary-layer thickness. This boundary-layer thickness was computed to be approximately 0.60 in.  $(\delta/l = 0.014)$  for  $M_{\infty} = 0.95$  and  $R_{\infty} = 1.8 \times 10^6$ (as compared to a 0.88-in. measured value for the artificially thickened configuration). The value of  $\delta$ , estimated by the Stratford and Beavers method, was calculated at a point 2 in. forward of the cavity leading edge in order to compare it with the measured boundary-layer thicknesses. The calculation of the boundary-layer thickness that was generated with the leading-edge strip does not need to be exact. What is important for this comparison is that a difference in the boundary-layer thickness exists. Figure 21 shows the sensitivity of the shallow-cavity pressure distribution to the boundary-layer thickness as the boundary layer enters the cavity. As can be seen, the effects are that the pressure distributions become slightly more positive in the aft region of the cavity and more negative downstream of the cavity when the boundary layer entering the cavity is thinner.

## Flow Symmetry

To study the lateral symmetry of the flow inside the cavity, the  $C_p$  distributions on both sides of the centerline are compared; figure 7 shows the locations of the orifices. Figures 22 and 23 are representative of the data that were obtained for the deep cavity. and figures 24 and 25 represent the shallow-cavity configuration. (Recall that when the cavity is in the shallow configuration, fewer orifices are exposed to the flow.) These plots show that the flow is relatively symmetrical about the model centerline. The pressures measured on the sidewall also are nearly the same as those on the floor. For the deep-cavity configuration (figs. 22 and 23), the  $C_p$ on the sidewalls becomes slightly more negative for the orifices in the aft-cavity portion near the cavity

opening, and the rear wall shows a positive shift in the level of  $C_p$  measured by the row of orifices nearest to the cavity opening in the region of the cavity centerline. This perturbation is probably due to the shear layer fluctuations on the rear face of the deep cavity.

## Effects of Cavity Shape

The shallow cavity was tested in several configurations. Changes were made to the forward- and aft-cavity shapes (fig. 5), and a fence was added (fig. 6). Figures 26 and 27 are representative of the results obtained. The addition of blocks to the forward portion of the shallow cavity has minimal impact on the static pressure distribution, except on the rear wall where a more positive pressure distribution resulted (fig. 26). The rear block was not instrumented; therefore, no static pressure measurements were taken in the aft-cavity portion for this configuration.

The addition of a fence upstream of the shallow cavity has a significant impact on the static pressures measured on the model (fig. 27). At lower Mach numbers, the pressure distribution is altered to be similar to a transitional cavity flow (fig. 27(a)). For Mach numbers >0.85, the measured pressures are reduced considerably in the aft portion of the cavity; this reduction causes the distribution in the aft end of the cavity to be more similar to an open-cavity distribution (fig. 27(b)). The change in the mean flow to more of an open-cavity flow causes a store to have less difficulty separating from the cavity. The effect of the fence is to impart increased momentum to the shear layer as the Mach number increases (fig. 28). The data are not shown, but at  $M_{\infty} \leq 0.60$ , the fence has a limited effect on the flow. As the Mach number increases, the data show very little separation downstream of the cavity; however, it is not clear if this is due to the fence or to Mach number effects.

The shallow cavity with front blocks was tested with both the transition strip on the model and with the 2-ft band of grit. In figure 29, the effect of a change in the boundary-layer thickness is not altered when front blocks are placed within the cavity. The distribution in the aft region of the cavity becomes more positive as the boundary-layer thickness decreases (fig. 21).

The deep-cavity configuration was tested with blocks in the forward portion of the cavity. The effect of this shape change on the static pressure distribution is minimal (fig. 30). The blocks were placed in the cavity in an attempt to affect the pressure wave propagation within the cavity and thereby impact the noise level of the open cavity. Because the dynamic

data were in error, the effect of the block on the unsteadiness of the cavity was studied by comparing the individual static pressure measurements. Several individual data samples are shown in figure 31; these samples were taken over a 1.25-sec period (see the discussion for fig. 11). A comparison of figures 11 and 31 shows that the unsteadiness in the static pressure measurement is not affected by the change in cavity shape. The location of the nodal point is affected however; the node moves farther downstream. For the deep-cavity configuration with front blocks, the node is at  $x/l \approx 0.5$  as compared to  $x/l \approx 0.275$ for an empty cavity. The change in the cavity shape may affect the harmonics of the cavity, but the shape change does not appear to effect the unsteadiness of the flow (fig. 31).

# **Concluding Remarks**

To aid in the understanding of the flow in cavities at transonic speeds, an experimental study was conducted in the David Taylor Research Center 7by 10-Foot Transonic Wind Tunnel. For this investigation, cavities with length-to-height (l/h) ratios of 4.4 and 11.7 were tested at Mach numbers from 0.30 to 0.95 and at Reynolds numbers from  $1.0 \times 10^6$  to  $4.2 \times 10^6$  per foot. Static pressures were measured on the model, and the boundary-layer thickness was measured 2 in. upstream of the cavity leading edge. For most of the test, the boundary layer was artificially thickened, thus causing the boundary-layer thickness to vary little with Reynolds number. With the boundary-layer thickness held constant, Reynolds number had no effect on the pressure distribution for the range of Reynolds numbers tested. For the shallow cavity (l/h = 11.7), runs also were made without artificially thickening the boundary layer. The comparison between artificially thickened and nonthickened boundary layers showed the pressure distribution in the aft-cavity portion to be sensitive to boundary-layer thickness entering the cavity. The measured pressures in the aft-cavity portion were greater than for the thinner boundary-layer runs. For the deep-cavity configuration (l/h = 4.4), at Reynolds numbers greater than  $3.0 \times 10^6$  per foot, the individual samples on the cavity floor fluctuated significantly over the 1-sec sampling period. data showed much less unsteadiness for the deep cavity at lower Reynolds numbers and for all conditions tested with the shallow cavity. Although mean static pressure distributions have been used in past deep-cavity analyses with transonic free-stream conditions, the data presented in this report indicate

that averaged data may not be adequate when determining cavity loads or cavity aerodynamics.

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Table I. Static Pressure Orifice Locations
[See figure 4 for coordinate origin]

Orifice				Orifice location	Orifice				Orifice location
number	x, in.	y, in.	z, in.	on model	number	x, in.	y, in.	z, in.	on model
1	-36.0	0.0	-0.500	Plate, leading edge	56	0.0	2.750	-4.8	Forward wall of cavity
2	-35.0	0.0	224	Plate, forward of cavity	57	0.0	4.125	-4.8	Forward wall of cavity
3	-34.0	0.0	127		65	3.0	4.8	-1.2	Right-hand sidewall of cavity
4	-33.0	0.0	067		66	6.0	4.8	-1.2	
5	-32.0	0.0	029		67	12.0	4.8	-1.2	
6	-31.0	0.0	007		68	18.0	4.8	-1.2	
7	-30.0	0.0	0.0		69	3.0	4.8	-4.8	
8	-29.0	0.0	0.0		70	6.0	4.8	-4.8	
9	-28.0	0.0	0.0		71	12.0	4.8	-4.8	
10	-27.0	0.0	0.0		72	18.0	4.8	-4.8	1
11	-26.0	0.0	0.0		80	2.0	-4.8	-2.4	Left-hand sidewall of cavity
12	-25.0	0.0	0.0		82	2.0	-4.8	-6.0	
13	-24.0	0.0	0.0		83	2.0	-4.8	-7.2	
14	-22.0	0.0	0.0		84	6.0	-4.8	-2.4	
15	-20.0	0.0	0.0		85	6.0	-4.8	-3.6	
16	-18.0	0.0	0.0		86	6.0	-4.8	-6.0	
17	-16.0	0.0	0.0		87	6.0	-4.8	-7.2	
18	-14.0	0.0	0.0		88	2.0	-4.8	-4.8	
19	-12.0	0.0	0.0		89	4.0	-4.8	-4.8	
20	-10.0	0.0	0.0		90	6.0	-4.8	-4.8	
21	-8.0	0.0	0.0		91	8.0	-4.8	-4.8	
33	-6.0	0.0	0.0		97	1.0	-4.8	-1.2	Left-hand sidewall of cavity
34	-4.0	0.0	0.0		98	2.0	-4.8	-1.2	
35	-2.0	0.0	0.0	<b> </b>	99	3.0	-4.8	-1.2	
36	-3.0	-7.8	0.0	Plate, left of cavity	100	4.0	-4.8	-1.2	
37	3.0	-7.8	0.0		101	5.0	-4.8	-1.2	
38	9.0	-7.8	0.0		102	6.0	-4.8	-1.2	
39	15.0	-7.8	0.0		103	7.0	-4.8	-1.2	
40	21.0	-7.8	0.0	↓ ↓	104	8.0	-4.8	-1.2	
41	-3.0	7.8	0.0	Plate, right of cavity	105	9.0	-4.8	-1.2	
42	10.0	7.8	0.0		106	10.0	-4.8	-1.2	
43	21.0	7.8	0.0	↓ ↓	107	11.0	-4.8	-1.2	
44	0.0	-4.125	-1.2	Forward wall of cavity	108	12.0	-4.8	-1.2	
45	0.0	-2.750	-1.2		109	14.0	-4.8	-1.2	
46	0.0	-1.375	-1.2		110	16.0	-4.8	-1.2	
47	0.0	0.0	-1.2		111	18.0	-4.8	-1.2	
48	0.0	1.375	-1.2		112	20.0	-4.8	-1.2	
	0.0		-1.2		113	22.0	-4.8	-1.2	
49		2.750	-1.2		114	24.0	-4.8	-1.2	
50	0.0	4.125			115	26.0	-4.8 -4.8	-1.2 $-1.2$	
51	0.0	-4.125	-4.8		116		-4.8 $-4.8$	-1.2 -4.8	
52	0.0	-2.750	-4.8			10.0	-4.8 -4.8	-4.8	
53	0.0	-1.375	-4.8		117	12.0			
54	0.0	0.0	-4.8		118	15.0	-4.8	-4.8	- 7 And 1
55	0.0	1.375	-4.8	+	121	24.0	-4.8	-4.8	+

Table I. Continued

Orifice				Orifice location	Orifice				Orifice location
number	x, in.	y, in.	z, in.	on model	number	x, in.	y, in.	z, in.	on model
123	18.0	-4.8	-2.40	Left-hand sidewall of cavity	172	40.0	0.0	Variable	Cavity floor
124	18.0	-4.8	-3.60		173	41.0	0.0	Variable	A
125	18.0	-4.8	-6.00		174	22.0	2.4	Variable	
126	18.0	-4.8	-7.20	<b>\</b>	175	24.0	2.4	Variable	
129	1.0	0.0	Variable	Cavity floor	176	26.0	2.4	Variable	
130	2.0	0.0	Variable		177	28.0	2.4	Variable	
131	3.0	0.0	Variable		178	30.0	2.4	Variable	
132	4.0	0.0	Variable		179	32.0	2.4	Variable	
133	5.0	0.0	Variable		180	34.0	2.4	Variable	
134	6.0	0.0	Variable		181	36.0	2.4	Variable	
135	8.0	0.0	Variable		182	37.0	2.4	Variable	
136	10.0	0.0	Variable		183	38.0	2.4	Variable	
137	12.0	0.0	Variable		184	39.0	2.4	Variable	
138	14.0	0.0	Variable		185	40.0	2.4	Variable	
139	16.0	0.0	Variable		186	41.0	2.4	Variable	
140	18.0	0.0	Variable		188	30.0	-2.4	Variable	
141	20.0	0.0	Variable		189	36.0	-2.4	Variable	i
142	1.0	2.4	Variable		190	38.0	-2.4	Variable	
143	2.0	2.4	Variable		191	40.0	-2.4	Variable	<b>\</b>
144	3.0	2.4	Variable		193	28.0	-4.8	-1.2	Left-hand sidewall of cavity
145	4.0	2.4	Variable		194	30.0	-4.8	-1.2	
146	5.0	2.4	Variable		195	31.0	-4.8	-1.2	
147	6.0	2.4	Variable		196	32.0	-4.8	-1.2	
148	8.0	2.4	Variable		197	33.0	-4.8	-1.2	
149	10.0	2.4	Variable		198	34.0	-4.8	-1.2	
150	12.0	2.4	Variable		199	35.0	-4.8	-1.2	
151	14.0	2.4	Variable		200	36.0	-4.8	-1.2	
152	16.0	2.4	Variable		201	37.0	-4.8	-1.2	
153	18.0	2.4	Variable		202	38.0	-4.8	-1.2	
154	20.0	2.4	Variable		203	39.0	-4.8	-1.2	
155	2.0	-2.4	Variable		204	40.0	-4.8	-1.2	
156	4.0	-2.4	Variable		205	41.0	-4.8	-1.2	
157	6.0	-2.4	Variable		206	30.0	-4.8	-4.8	
158	12.0	-2.4	Variable		207	32.0	-4.8	-4.8	
159	18.0	-2.4	Variable		208	34.0	-4.8	-4.8	
161	22.0	0.0	Variable		209	36.0	-4.8	-4.8	
162	24.0	0.0	Variable		210	38.0	-4.8	-4.8	
163	26.0	0.0	Variable		211	40.0	-4.8	-4.8	
164	28.0	0.0	Variable		212	30.0	-4.8	-2.4	
165	30.0	0.0	Variable		213	30.0	-4.8	-3.6	
166	32.0	0.0	Variable		214	30.0	-4.8	-6.0	
167	34.0	0.0	Variable	× ,	215	30.0	-4.8	-7.2	
168	36.0	0.0	Variable		216	36.0	-4.8	-2.4	
169	37.0	0.0	Variable		217	36.0	-4.8	-3.6	
170	38.0	0.0	Variable		218	36.0	-4.8	-6.0	
171	39.0	0.0	Variable	<u></u>	219	36.0	-4.8	-7.2	<u></u>

Table I. Concluded

Orifice	1			Orifice location	Orifice				Orifice location
number	x, in.	y, in.	z, in.	on model	number	x, in.	y, in.	z, in.	on model
220	40.0	-4.8	-2.4	Left-hand sidewall of cavity	271	43.0	-7.8	0.0	Plate, left of cavity
221	40.0	-4.8	-3.6		272	45.0	-7.8	0.0	Plate, left of cavity
222	40.0	-4.8	-6.0	j	273	32.0	7.8	0.0	Plate, right of cavity
223	40.0	-4.8	-7.2	<b>\</b>	274	45.0	7.8	0.0	Plate, right of cavity
225	42.0	4.0	-3.6	Aft wall of cavity	275	42.0	4.0	-1.2	Aft wall of cavity
226	42.0	3.0	-3.6		276	42.0	3.0	-1.2	
227	42.0	2.0	-3.6		277	42.0	2.0	-1.2	
228	42.0	1.0	-3.6		278	42.0	1.0	-1.2	
229	42.0	0.0	-3.6		279	42.0	0.0	-1.2	
230	42.0	-1.0	-3.6	j	280	42.0	-1.0	-1.2	
231	42.0	-2.0	-3.6		281	42.0	-2.0	-1.2	
232	42.0	-3.0	-3.6		282	42.0	-3.0	-1.2	
233	42.0	-4.0	-3.6		283	42.0	-4.0	-1.2	
234	42.0	0.0	-5.4		284	42.0	0.0	-2.4	1
235	42.0	4.0	-7.2				7,7		
236	42.0	3.0	-7.2						
237	42.0	2.0	-7.2						- T 1999 T-
238	42.0	1.0	-7.2						
239	42.0	0.0	-7.2						
240	42.0	-1.0	-7.2						
	42.0	-2.0	-7.2						
241			-7.2 $-7.2$						
242	42.0	-3.0	-7.2 -7.2						
243	42.0	-4.0							
244	42.0	0.0	-8.4	Pile le le i le ulle ferrite					- Mar 6
245	24.0	4.8	-1.2 $-1.2$	Right-hand sidewall of cavity					
246	30.0	4.8							
247	36.0	4.8	-1.2						
248	39.0	4.8	-1.2						
249	24.0	4.8	-4.8						
250	30.0	4.8	-4.8						
251	36.0	4.8	-4.8						
252	39.0	4.8	-4.8	<b>D</b>					
257	44.0	0.0	0.0	Plate, aft of cavity					7 11 12
258	46.0	0.0	0.0						
259	48.0	0.0	0.0						
260	50.0	0.0	0.0						
261	52.0	0.0	0.0						
262	54.0	0.0	0.0	<u> </u>					1
263	27.0	-7.8	0.0	Plate, left of cavity					
264	29.0	-7.8	0.0						and the second
265	31.0	-7.8	0.0						7,46
266	33.0	-7.8	0.0						
267	35.0	-7.8	0.0						
268	37.0	-7.8	0.0				.4		
269	39.0	-7.8	0.0						
270	41.0	-7.8	0.0	<u> </u>					

Table II. Nominal Test Conditions

Mach	Reynolds number,			
number	per ft	$q_{\infty}$ , psf	$p_{t\infty}$ , psf	$T_{t\infty}$ ,°F
0.30	$1.0 \times 10^{6}$	70.1	1201.5	112.0
.60	$1.6 \times 10^{6}$	202.4	1023.1	91.3
.60	$3.5 \times 10^{6}$	410.9	2085.3	85.4
.80	$1.5 \times 10^{6}$	238.5	818.4	105.4
.80	$3.3 \times 10^{6}$	529.7	1806.2	108.3
.80	$3.9 \times 10^{6}$	619.6	2113.6	106.7
.85	$1.6 \times 10^{6}$	278.7	893.9	120.2
.85	$3.3 \times 10^{6}$	550.7	1766.9	111.3
.85	$4.0 \times 10^{6}$	666.9	2116.5	101.2
.90	$1.6 \times 10^{6}$	287.7	865.3	116.2
.90	$1.9 \times 10^{6}$	317.3	951.5	82.5
.90	$3.3 \times 10^{6}$	549.4	1645.6	93.7
.95	$1.7 \times 10^{6}$	322.6	914.0	121.1

Table III. Measured Boundary-Layer Thickness

Mach	Reynolds number,	
number	per ft	$\delta$ , in.
0.30	$1.0 \times 10^{6}$	Not measured
.60	$1.6 \times 10^{6}$	0.80
.60	$3.5 \times 10^{6}$	.77
.80	$1.5 \times 10^{6}$	.82
.80	$3.3 \times 10^{6}$	.86
.80	$3.9 \times 10^{6}$	.85
.85	$1.6 \times 10^{6}$	.84
.85	$3.3 \times 10^{6}$	.88
.85	$4.0 \times 10^{6}$	.88
.90	$1.6 \times 10^{6}$	.85
.90	$1.9 \times 10^{6}$	.87
.90	$3.3 \times 10^{6}$	.90
.95	$1.7 \times 10^{6}$	.88

Table IV. Pressure Coefficients for l/h=4.4 Cavity

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
69.	0.29	1.0	1095.9	1162.1	64.8	87.0	0.8456	-0.2614	-0.2834	-0.2271	-0.2213	-0.1599	-0.1644	-0.0711	-0.1042	-0.0620
68.	0.58	1.5	799.2	1004.0	188.4	100.6	1.0080				-0.2187					-0.0597
216.	0.60	1.6	755.2	961.1	188.5	73.4	0.9300	-0.2595			-0.2013				-0.0777	-0.0551
8.	0.60	3.5	1659.4	2112.0	414.3	74.4	0.9873	-0.3467	-0.2964	-0.2136	-0.1961	-0.1651	-0.1319	-0.0752	-0.0652	-0.0568
66.	0.79	1.5	539.2	817.5	238.3	105.8	1.1214	-0.3139	-0.3569	-0.2795	-0.2549	-0.1990	-0.1556	-0.0868	-0.0799	-0.0581
218.	0.79	3.3	1194.6	1811.5	528.2	109.6	1.1234	-0.3641	-0.3698	-0.2593	-0.2351	-0.1891	-0.1473	-0.0800	-0.0650	-0.0489
214.	0.80	3.9	1389.8	2114.0	619.3	107.7	1.1214	-0.3992	-0.3695	-0.2603	-0.2357	-0.1925	-0.1347	-0.0817	-0.0667	-0.0517
64.	0.84	1.6	559.3	890.1	277.9	120.7					-0.2649				-0.0686	-0.0468
118.	0.85	3.3	1105.6	1767.8	555.4	110.9					-0.2535				-0.0629	
15.	0.85	4.0	1326.8	2120.3	665.6	109.9					-0.2529				-0.0628	
67.	0.89	1.6	516.4	865.7	287.5	116.9					-0.3960				-0.0561	
116.	0.90	1.9	564.7	951.2	317.6	82.5									-0.0517	
17.	0.90	3.3	996.3	1677.5	559.7	100.2					-0.3711					
63.	0.95	1.7	510.6	914.2	323.6	121.7	1.2240	-0.1097	-0.3185	-0.3257	-0.3691	-0.3598	-0.3690	-0.2591	-0.1372	-0.0412
D	CD11	CD10	CD10	CD1 4	OD4F	OD40	CD.	CD40	CD10	CD.	CIT	O.D.o.o	0.70			
Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
69.	-0.1166	-0.0799	-0.0682	-0.0298	-0.0543	-0.0663	-0.0838	-0.0227	-0.0590	-0.0025	-0.0683	-0.0489	-0.0032	-0.0133	-0.0087	-0.0384
68.	-0.0903	-0.0677								-0.0067	-0.0350		-0.0045	-0.0053		-0.0227
216.	-0.0870	-0.0647	-0.0242	-0.0220	-0.0365	-0.0590	-0.0471	-0.0207	-0.0294	0.0190	-0.0561		0.0017	0.0099	-0.0006	-0.0289
8.	-0.0690	-0.0538	-0.0288	-0.0256	-0.0085	-0.0492	-0.0295	-0.0198	-0.0204	-0.0153	-0.0076	-0.0076	-0.0118	-0.0040	-0.0241	-0.0032
66.	-0.0802	-0.0589	-0.0341	-0.0172	-0.0171	-0.0442	-0.0423	-0.0169	-0.0239	-0.0022	-0.0149	-0.0095	0.0058	0.0071	-0.0019	-0.0024
218.	-0.0637	-0.0452	-0.0200	-0.0168	-0.0024	-0.0398	-0.0238	-0.0139	-0.0145	-0.0046	-0.0003	-0.0007	-0.0004	0.0038	-0.0125	0.0050
214.	-0.0648	-0.0469	-0.0219		-0.0024		-0.0246	-0.0159		-0.0073	-0.0002	-0.0006	-0.0034	0.0028	-0.0162	0.0045
64.	-0.0670	-0.0473			-0.0050			-0.0102			-0.0009	-0.0046	0.0096	0.0077	0.0014	0.0042
118.	-0.0600	-0.0423			-0.0008						0.0008	0.0014	0.0019	0.0064	-0.0100	0.0074
15.	-0.0593	-0.0413	-0.0151				-0.0210			-0.0010	0.0015	0.0041	0.0018	0.0077	-0.0106	0.0085
67.	-0.0534	-0.0352	-0.0145				-0.0285			0.0006	0.0053	0.0010	0.0135	0.0140	0.0040	0.0135
116.	-0.0502	-0.0330			-0.0022					0.0187	-0.0110	0.0066	0.0134	0.0199	0.0075	0.0073
17.	-0.0430	-0.0286	-0.0034				-0.0155			0.0001	0.0102	0.0076	0.0052	0.0119	-0.0068	0.0188
03.	-0.0171	0.0089	0.0275	0.0355	0.0297	-0.0093	-0.0124	0.0013	-0.0062	0.0111	0.0100	0.0065	0.0181	0.0196	0.0077	0.0164

Table IV. Continued

Run	CP38	CP39	CP40	CP41	CP42	CP43	CP44	CP45	CP46	CP47	CP48	CP49	CP50	CP51	CP52	CP53
69.	0.0068	-0.0383	-0.0886	-0.0459	0.0103	-0.1035	0.0293	0.0025	0.0130	-0.0059	0.0293	-0.0272	0.0392	0.0028	0.0270	0.0028
68.	-0.0046	-0.0228	-0.0335	-0.0182		-0.0341	0.0102	-0.0031	-0.0071		0.0061	-0.0170		0.0021	0.0080	-0.0053
216.	0.0059	-0.0082	-0.0261	-0.0201	0.0042	-0.0127	0.0109	-0.0030	-0.0311	-0.0300	0.0199	-0.0317	0.0170	0.0193	0.0139	0.0135
8.	-0.0069	-0.0123	-0.0267	-0.0045	0.0009	-0.0284	0.0093	0.0065	0.0097	0.0045	0.0011	0.0110	0.0109	0.0056	0.0069	-0.0057
66.	0.0072	-0.0091	-0.0162	-0.0021	0.0111	-0.0159	0.0207	0.0102	0.0103	0.0041	0.0154	0.0028	0.0237	0.0121	0.0176	0.0050
218.	0.0027	-0.0061	-0.0150	0.0050	0.0070	-0.0175	0.0155	0.0103	0.0128	0.0070	0.0051	0.0116		0.0072	0.0110	-0.0022
214.	0.0004	-0.0070	-0.0155	0.0029	0.0048	-0.0191	0.0106	0.0040	0.0072	0.0027	-0.0022	0.0066		0.0002	0.0041	-0.0071
64.	0.0081	-0.0091	-0.0083	0.0026	0.0108	-0.0134	0.0171	0.0072	0.0113	0.0042	0.0109	0.0048	0	0.0086	0.0149	0.0011
118.	0.0034	-0.0068	-0.0105	0.0055		-0.0103	0.0147	0.0123	0.0148	0.0105	0.0098	0.0139		0.0106	0.0142	0.0044
15.	0.0046	-0.0030	-0.0068	0.0074		-0.0079	0.0152	0.0115	0.0126	0.0088	0.0085	0.0143		0.0097	0.0115	0.0013
67.	0.0115	-0.0035	-0.0002	0.0100	0.0156	0.0009	0.0241	0.0163	0.0240	0.0163	0.0169	0.0156		0.0132	0.0195	0.0055
116.	0.0167	0.0064	0.0075	0.0069	0.0144	0.0038	0.0241	0.0193	0.0088	0.0065	0.0261	0.0058		0.0261	0.0248	0.0204
17.	0.0097	0.0020	0.0055	0.0107	0.0105	-0.0085	0.0164	0.0139	0.0181	0.0126	0.0050	0.0170	0.0.0.0	0.0091	0.0143	0.0040
63.	0.0179	0.0034	0.0093	0.0110	0.0185	0.0019	0.0287	0.0217	0.0247	0.0180	0.0225	0.0163	0.0308	0.0196	0.0255	0.0140
		07	OD FO	ODER	CDAR	CID 44	CID OF	CIDAO	CDCC	CDZO	CD71	CDTO	anon	CDee	CDoo	CP84
Run	CP54	CP55	CP56	CP57	CP65	CP66	CP67	CP68	CP69	CP70	CP71	CP72	CP80	CP82	CP83	CP84
69.	0.0209	0.0000	0.0251	-0.0052	-0.0199	0.0003	-0.0122	-0.0150	-0.0063	0.0118	-0.0118	-0.0284	0.0209	0.0159	0.0026	0.0104
68.	-0.0036	-0.0099	0.0077	-0.0027	-0.0198	-0.0300		-0.0473			-0.0298	-0.0365	0.0037	-0.0004	-0.0043	-0.0196
216.	-0.0009	-0.0048	0.0276	0.0127	-0.0098	-0.0401	-0.0316	-0.0284	-0.0012	-0.0170	-0.0175	-0.0274	0.0128	-0.0115	0.0208	-0.0209
8.	-0.0022	-0.0006	0.0052	0.0045	-0.0019	-0.0165	-0.0311	-0.0440	-0.0032	-0.0090	-0.0207	-0.0277	0.0047	0.0121	-0.0003	-0.0120
66.	0.0087	0.0048	0.0169	0.0091	-0.0028	-0.0106	-0.0257	-0.0291	0.0025	0.0002	-0.0135	-0.0199	0.0154	0.0145	0.0071	-0.0046
218.	0.0008	0.0000	0.0069	0.0048	0.0018	-0.0059	-0.0225	-0.0333	-0.0012					0.0139	0.0032	-0.0076
214.	-0.0030	-0.0030	0.0030	0.0019	0.0010	-0.0072	-0.0224	-0.0400				-0.0219		0.0128	0.0025	-0.0092
64.	0.0061	0.0023	0.0110	0.0047	-0.0030	-0.0061	-0.0289	-0.0345	-0.0001			-0.0179		0.0154		-0.0075
118.	0.0074	0.0060	0.0095	0.0075		-0.0063	-0.0276		0.0057		-0.0148			0.0151	0.0000	-0.0056
15.	0.0037	0.0037	0.0093	0.0064	0.0051	-0.0051	-0.0232	-0.0351	0.0021		-0.0151	-0.0159		0.0113	0.0041	-0.0062
67.	0.0140	0.0104	0.0158	0.0093	0.0066	0.0063	-0.0234	-0.0209	0.0082	0.000			0.0177	0.0235	0.0082	0.0058
116.	0.0150	0.0122	0.0257	0.0183	0.0092	-0.0051	-0.0147	-0.0214	0.0144	0.0068	-0.0056		0.0221	0.0132	0.0232	-0.0012
17.	0.0071	0.0062	0.0095	0.0100	0.0121		-0.0164		0.0066	0.0055		-0.0078		0.0220	0.0117	-0.0004
63.	0.0177	0.0133	0.0201	0.0151	0.0114	0.0102	-0.0127	-0.0146	0.0134	0.0133	-0.0039	-0.0013	0.0238	0.0269	0.0172	0.0062

Table IV. Continued

Run	CP85	CP86	CP87	CP88	CP89	CP90	CP91	CP97	CP98	CP99	CP100	CP101	CP102	CP103	CP104	CP105
69.	-0.0130		-0.0016		-0.0248	0.0094	-0.0015	-0.0104	0.0303	0.0049	0.0068	-0.0042	0.0207	-0.0156	0.0139	-0.0256
68.	-0.0260	-0.0088			-0.0224		-0.0190	-0.0055	0.0089	-0.0099	-0.0141	-0.0253	-0.0194	-0.0363	-0.0251	-0.0407
216.	-0.0204		-0.0065			-0.0215		0.0008	0.0170	0.0115	-0.0335	-0.0091	-0.0123	-0.0393	-0.0133	
8.	-0.0135					-0.0084		0.0099	0.0062	-0.0043	-0.0053	-0.0171	-0.0189	-0.0209	-0.0217	-0.0285
66.	-0.0097	0.0021	-0.0041			-0.0009		0.0090	0.0182	0.0031					-0.0110	
218.	-0.0100		-0.0083			-0.0035		0.0118	0.0132	0.0019					-0.0198	
214.	-0.0094		-0.0067			-0.0034		0.0122	0.0130	0.0038					-0.0149	
64.		-0.0011	-0.0063			-0.0008		0.0067	0.0170	-0.0003					-0.0130	
118.		-0.0005		0.0104		-0.0002		0.0129	0.0157	0.0055					-0.0116	
15.		-0.0035	-0.0053			-0.0019		0.0128	0.0133	0.0039					-0.0151	0.0-00
67.	-0.0003	0.0062	0.0017	0.0160	0.0094			0.0148	0.0218	0.0069	0.0155				-0.0021	0.00
116.	0.0001	0.0131	0.0078	0.0218	0.0005	0.0025	0.0041	0.0174	0.0249	0.0193	0.0029	0.0072			-0.0019	
17. 63.	-0.0004 $0.0034$	0.0018	0.0014	0.0145	0.0092	0.0053	-0.0067	0.0186	0.0186	0.0110	0.0111	0.0035		-0.0013		0.0-0-
05.	0.0054	0.0130	0.0085	0.0228	-0.0104	0.0125	0.0002	0.0202	0.0292	0.0161	0.0198	0.0070	0.0108	-0.0001	0.0010	-0.0085
Run	CP106	CP107	CP108	CP109											CP123	
69.		-0.0123	0.0104		0.0205	-0.0513	-0.0733	-0.1701	-0.1649	-0.2368	-0.0111	-0.0188	0.0071	-0.1829	-0.0426	-0.0276
68.	-0.0293	-0.0404	-0.0341	-0.0490	-0.0385	-0.0588	-0.0517	-0.0687	-0.0482	-0.0601	-0.0241	-0.0307	-0.0263	-0.0349	-0.0414	-0.0301
216.	-0.0415	-0.0368	-0.0410	-0.0525	-0.0121	-0.0515	-0.0396	-0.0638	-0.0461	-0.0516	-0.0538	-0.0241	-0.0192	0.0012	-0.0168	-0.0280
8.	-0.0253	-0.0284	-0.0275	-0.0325	-0.0383	-0.0406	-0.0379	-0.0469	-0.0389	-0.0375	-0.0108	-0.0206	-0.0233	-0.0250	-0.0320	-0.0260
66.	-0.0135	-0.0229	-0.0172	-0.0276	-0.0254	-0.0381	-0.0339	-0.0460	-0.0313	-0.0375	-0.0056	-0.0166	-0.0117	-0.0165	-0.0262	-0.0134
218.	-0.0186	-0.0242	-0.0194	-0.0230	-0.0261	-0.0309	-0.0277	-0.0341	-0.0227	-0.0244	-0.0077	-0.0194	-0.0168		-0.0255	
214.	-0.0171	-0.0232	-0.0227	-0.0300	-0.0294	-0.0306	-0.0250	-0.0282	-0.0199	-0.0213	-0.0063	-0.0185			-0.0301	0.0
64.	-0.0150	-0.0253	-0.0208	-0.0320	-0.0316	-0.0403	-0.0320	-0.0376	-0.0167	-0.0215	-0.0062	-0.0196	-0.0170		-0.0317	0.0-0
118.	-0.0175	0.0242	-0.0244	-0.0343	-0.0383	-0.0422	-0.0333	-0.0363	-0.0234	-0.0229	-0.0096				-0.0362	0.00
15.	-0.0195								-0.0168	-0.0137		-0.0212			-0.0284	
116.	0.0000	0.0173	0.0122	0.0228	0.0236	0.0269	-0.0219	-0.0306	-0.0168	-0.0233			-0.0078		-0.0238	
170.	0.0172	-0.0190	0.0198	0.0251	0.0088	0.0212	-0.0068	-0.0120	-0.0002						-0.0112	
63	-0.0144							-0.0099			-0.0031				-0.0196	0.0
00.	-0.0029	-0.0155	-0.0093	-0.0100	-0.0117	-0.0147	-0.0048	-0.0109	0.0039	-0.0035	0.0020	-0.0109	-0.0065	0.0076	-0.0105	-0.0007

Table IV. Continued

Run	CP125	CP126	CP129	CP130	CP131	CP132	CP133	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP142
69.	-0.0603	-0.0337	-0.0118	0.0218	-0.0096	0.0158	-0.0194	-0.0040	-0.0154	0.0094	-0.0373	0.0091	-0.0303	-0.0166	-0.0693	0.0343
68.	-0.0480	-0.0359	-0.0254	-0.0121	-0.0296	-0.0217	-0.0373	-0.0282	-0.0315	-0.0211	-0.0384	-0.0218	-0.0395	-0.0352	-0.0535	0.0019
216.	-0.0452	-0.0449	-0.0042	-0.0064	-0.0177	-0.0205	-0.0343	-0.0436	-0.0224	-0.0050	-0.0261	0.0042	-0.0125	-0.0168	-0.0416	0.0235
8.	-0.0299	-0.0239	-0.0153		-0.0203									-0.0346		-0.0047
66.	-0.0244	-0.0136			-0.0133											0.0104
218.	-0.0197	-0.0117			-0.0169											0.0013
214.	-0.0241	-0.0181			-0.0126										-0.0304	-0.0007
64.	-0.0238	-0.0121			-0.0144									-0.0214	-0.0298	0.0068
118.	-0.0230				-0.0083										-0.0288	0.0080
15.	0.010=	-0.0093	0.000	-0.0058				-0.0084						-0.0231	-0.0247	0.0052
67.	-0.0098	0.0014	-0.0028		-0.0034		-0.0059			-0.0044				-0.0142	-0.0209 -0.0190	0.0139 $0.0234$
116.	-0.0147		0.0087	0.0103	0.0032			-0.0069		-0.0018	-0.0117			-0.0080	0.0100	0.0254 $0.0103$
17.	-0.0133	0.000	0.0020	0.0041 $0.0148$	-0.0012 $0.0029$		-0.0025 -0.0003		-0.0048 -0.0010		-0.0109					0.0103 $0.0194$
63.	-0.0078	0.0014	0.0039	0.0148	0.0029	0.0097	-0.0003	0.0062	-0.0010	0.0009	-0.0093	-0.0037	-0.0139	~0.0076	-0.0145	0.0194
_	OD4 10	CD 111	CD115	CD110	GD1.45	CD1 40	GD1 40	CD150	CD151	CD150	CD150	CD154	CD1FF	CD1FC	OD157	CD150
Run	CP143	CP144	CP145	CP146	CP147	CP148	CP149	CP150	CP151	CP152	CP153	CP154	CP155	CP150	CP157	CF158
CO	0.0086	0.0125	-0.0119	0.0242	-0.0152	0.0914	0.0053	0.0086	0.0264	0.0063	0.0607	0.0361	-0.0004	0.0206	-0.0109	-0.0164
69. 68.	-0.0126				-0.0132 $-0.0317$									0.0-0		
216.	0.0093			-0.0131		0.00145	0.0058			-0.0007					-0.0116	
210.	0.0000	-0.0108			-0.0218											
66	-0.0003	0.0007			-0.0145											-0.0111
218.	-0.0054	0.000.	0.0170	0.0012	0.0110	0.0021	0.0110	0.0000	0.0101	0.0200					0.0150	0.0000
214.	-11.1111114	-0.0000	-0.0163	-0.0086	-0.0144	-0.0101	-0.0166	-0.0117	-0.0156	-0.0171	-0.0202	-0.0160	-0.0035	-0.0080	-0.0158	-0.0086
	-0.0054	0.0000			-0.0144 $-0.0131$			-0.0117 -0.0144								-0.0086 $-0.0105$
64.	0.0001	0.0000	-0.0148	-0.0084		-0.0117	-0.0171	-0.0144	-0.0183	-0.0214	-0.0251	-0.0219	-0.0044	-0.0083		
64. 118.	-0.0059	-0.0057	-0.0148 -0.0170 -0.0062	-0.0084 -0.0022 -0.0016	-0.0131 -0.0148 -0.0079	-0.0117 -0.0058 -0.0055	$\begin{array}{c} -0.0171 \\ -0.0180 \\ -0.0132 \end{array}$	-0.0144 -0.0104 -0.0129	-0.0183 -0.0198 -0.0192	-0.0214 -0.0167 -0.0199	-0.0251 -0.0270 -0.0229	-0.0219 -0.0135 -0.0153	$\begin{array}{c} -0.0044 \\ -0.0046 \\ -0.0007 \end{array}$	-0.0083 -0.0029	-0.0130 -0.0152	-0.0105 -0.0100
	-0.0059 -0.0038	-0.0057 -0.0020	-0.0148 -0.0170 -0.0062	-0.0084 -0.0022 -0.0016	-0.0131 -0.0148	-0.0117 -0.0058 -0.0055	$\begin{array}{c} -0.0171 \\ -0.0180 \\ -0.0132 \end{array}$	-0.0144 -0.0104 -0.0129	-0.0183 -0.0198 -0.0192	-0.0214 -0.0167 -0.0199	-0.0251 -0.0270 -0.0229	-0.0219 -0.0135 -0.0153	-0.0044 -0.0046 -0.0007 -0.0011	-0.0083 -0.0029 -0.0014 -0.0048	-0.0130 -0.0152 -0.0073 -0.0092	-0.0105 -0.0100 -0.0123 -0.0120
118.	-0.0059 -0.0038 0.0003	-0.0057 -0.0020 0.0000	-0.0148 -0.0170 -0.0062	$\begin{array}{c} -0.0084 \\ -0.0022 \\ -0.0016 \\ -0.0042 \end{array}$	-0.0131 -0.0148 -0.0079	-0.0117 -0.0058 -0.0055 -0.0073	$\begin{array}{c} -0.0171 \\ -0.0180 \\ -0.0132 \\ -0.0128 \end{array}$	$\begin{array}{c} -0.0144 \\ -0.0104 \\ -0.0129 \\ -0.0115 \\ -0.0056 \end{array}$	-0.0183 -0.0198 -0.0192 -0.0171 -0.0136	-0.0214 -0.0167 -0.0199 -0.0183 -0.0114	-0.0251 -0.0270 -0.0229 -0.0205 -0.0176	$\begin{array}{c} -0.0219 \\ -0.0135 \\ -0.0153 \\ -0.0156 \\ -0.0058 \end{array}$	-0.0044 -0.0046 -0.0007 -0.0011 0.0048	-0.0083 -0.0029 -0.0014 -0.0048 0.0066	-0.0130 -0.0152 -0.0073 -0.0092 -0.0051	-0.0105 -0.0100 -0.0123 -0.0120 -0.0011
118. 15.	-0.0059 -0.0038 0.0003 -0.0018	-0.0057 -0.0020 0.0000 -0.0015	-0.0148 -0.0170 -0.0062 -0.0088	$\begin{array}{c} -0.0084 \\ -0.0022 \\ -0.0016 \\ -0.0042 \end{array}$	$\begin{array}{c} -0.0131 \\ -0.0148 \\ -0.0079 \\ -0.0090 \\ -0.0045 \\ -0.0002 \end{array}$	-0.0117 -0.0058 -0.0055 -0.0073 0.0020 0.0085	-0.0171 -0.0180 -0.0132 -0.0128 -0.0113 0.0049	-0.0144 -0.0104 -0.0129 -0.0115 -0.0056 0.0020	-0.0183 -0.0198 -0.0192 -0.0171 -0.0136 -0.0076	-0.0214 -0.0167 -0.0199 -0.0183 -0.0114 0.0002	-0.0251 -0.0270 -0.0229 -0.0205 -0.0176 -0.0136	-0.0219 -0.0135 -0.0153 -0.0156 -0.0058 -0.0063	-0.0044 -0.0046 -0.0007 -0.0011 0.0048 0.0108	-0.0083 -0.0029 -0.0014 -0.0048 0.0066 0.0087	-0.0130 -0.0152 -0.0073 -0.0092 -0.0051 0.0024	-0.0105 -0.0100 -0.0123 -0.0120 -0.0011 -0.0130
118. 15. 67.	-0.0059 -0.0038 0.0003 -0.0018 0.0044	-0.0057 -0.0020 0.0000 -0.0015 0.0088	-0.0148 -0.0170 -0.0062 -0.0088 -0.0067	$\begin{array}{c} -0.0084 \\ -0.0022 \\ -0.0016 \\ -0.0042 \\ 0.0076 \end{array}$	$\begin{array}{c} -0.0131 \\ -0.0148 \\ -0.0079 \\ -0.0090 \\ -0.0045 \\ -0.0002 \end{array}$	-0.0117 -0.0058 -0.0055 -0.0073 0.0020 0.0085 -0.0005	-0.0171 -0.0180 -0.0132 -0.0128 -0.0113 0.0049	-0.0144 -0.0104 -0.0129 -0.0115 -0.0056 0.0020 -0.0066	-0.0183 -0.0198 -0.0192 -0.0171 -0.0136 -0.0076 -0.0110	-0.0214 -0.0167 -0.0199 -0.0183 -0.0114 0.0002	-0.0251 -0.0270 -0.0229 -0.0205 -0.0176 -0.0136 -0.0109	-0.0219 -0.0135 -0.0153 -0.0156 -0.0058 -0.0063	-0.0044 -0.0046 -0.0007 -0.0011 0.0048	-0.0083 -0.0029 -0.0014 -0.0048 0.0066	-0.0130 -0.0152 -0.0073 -0.0092 -0.0051	-0.0105 -0.0100 -0.0123 -0.0120 -0.0011

Table IV. Continued

Run	CP159	CP161	CP162	CP163	CP164	CP165	CP166	CP167	CP168	CP169	CP170	CP171	CP172	CP173	CP174	CP175
69.	-0.0331	-0.1192	-0.1221	-0.2208	-0.2131	-0.2619	-0.2107	-0.2075	-0.1056	-0.0788	0.0050	0.0851	0.1925	0.2933	-0.0648	-0.1457
68.	-0.0392		-0.0374		-0.0305		-0.0024	0.0113	0.0486	0.0558	0.0820	0.1097	0.1742	0.2868		-0.0434
216.	-0.0130	-0.0639	-0.0433	-0.0357	-0.0216	-0.0093	-0.0040	0.0120	0.0439	0.0768	0.0901	0.1033	0.1960	0.2699	-0.0269	-0.0444
8.	-0.0317	-0.0401	-0.0320	-0.0278	-0.0152	-0.0070	0.0147	0.0317	0.0727	0.0705	0.0933	0.1172	0.1754	0.2846	-0.0265	-0.0272
66.					-0.0085		0.0223	0.0381	0.0691	0.0771	0.1013	0.1242	0.1859	0.2982	-0.0160	-0.0189
218.	-0.0230				-0.0034	0.0028	0.0263	0.0462	0.0772	0.0833	0.1055	0.1278	0.1852	0.3032	-0.0162	-0.0140
214.	-0.0251				-0.0077	0.0029	0.0267	0.0498	0.0801	0.0851	0.1052	0.1269	0.1809	0.3034	-0.0153	-0.0141
64.	-0.0245				0.0060	0.0149	0.0461	0.0671	0.0990	0.1062	0.1296	0.1446	0.2001	0.3091	-0.0110	-0.0085
118.	-0.0238				0.0055	0.0186	0.0492	0.0705	0.1008	0.1103	0.1294	0.1480	0.2049	0.3207	-0.0152	-0.0095
15.	-0.0195			0.0013	0.0178	0.0316	0.0587	0.0825	0.1109	0.1205	0.1378	0.1576	0.2067		-0.0110	-0.0025
67.	-0.0148				0.0086	0.0200	0.0534	0.0777	0.1082	0.1167	0.1435	0.1605	0.2203	0.3302	-0.0049	-0.0029
116. 17.	-0.0075			-0.0060	0.0100	0.0269	0.0467	0.0709	0.1034	0.1265	0.1408	0.1561	0.2229	0.3231	0.0027	0.0014
	-0.0194 -0.0099			-0.0047	0.0092	0.0255	0.0578	0.0852	0.1199	0.1290	0.1488	0.1688	0.2206	0.3388	-0.0016	0.0060
05.	-0.0099	-0.0157	0.0005	-0.0030	0.0132	0.0223	0.0531	0.0774	0.1111	0.1207	0.1439	0.1616	0.2186	0.3298	0.0062	0.0081
-	~~	~~	~	~~								Taxana and the same		and the second		
Run	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP184	CP185	CP186	CP188	CP189	CP190	CP191	CP193
69.	-0.1842	-0.2596	-0.2078	-0.2392	-0.1854	-0.1326	-0.0438	-0.0050	0.1017	0.1719	0.3010	-0.2294	-0.1263	0.0045	0.1779	-0.2839
69. 68.	-0.1842 -0.0346	-0.2596 -0.0407	-0.2078 -0.0039	-0.2392 0.0025	-0.1854 0.0335	-0.1326 0.0548	-0.0438 0.0863	-0.0050 0.1033	0.1017 0.1497	0.1719 0.1990	0.3010 0.3020	-0.2294 -0.0100	-0.1263 0.0571	0.0045 0.1128	0.1779 $0.2002$	-0.2839 -0.0658
69.	-0.1842 -0.0346 -0.0277	-0.2596 -0.0407 -0.0355	-0.2078 -0.0039 -0.0146	-0.2392 0.0025 0.0072	-0.1854 0.0335 0.0697	-0.1326 0.0548 0.0719	-0.0438 0.0863 0.0732	-0.0050 0.1033 0.1051	0.1017 0.1497 0.1659	0.1719 0.1990 0.1962	0.3010 0.3020 0.2915	-0.2294 -0.0100 -0.0008	-0.1263 0.0571 0.0881	0.0045 $0.1128$ $0.0951$	0.1779 0.2002 0.1954	-0.2839 -0.0658 -0.0579
69. 68. 216. 8.	-0.1842 -0.0346 -0.0277 -0.0196	-0.2596 -0.0407 -0.0355 -0.0126	-0.2078 -0.0039 -0.0146 0.0088	-0.2392 0.0025 0.0072 0.0223	-0.1854 0.0335 0.0697 0.0476	-0.1326 0.0548 0.0719 0.0776	-0.0438 0.0863 0.0732 0.1014	-0.0050 0.1033 0.1051 0.1209	0.1017 0.1497 0.1659 0.1574	0.1719 0.1990 0.1962 0.2105	0.3010 0.3020 0.2915 0.2960	-0.2294 -0.0100 -0.0008 0.0084	-0.1263 0.0571 0.0881 0.0758	0.0045 0.1128 0.0951 0.1245	0.1779 0.2002 0.1954 0.2085	-0.2839 -0.0658 -0.0579 -0.0298
69. 68. 216. 8. 66.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085	-0.2078 -0.0039 -0.0146 0.0088 0.0207	-0.2392 0.0025 0.0072 0.0223 0.0301	-0.1854 0.0335 0.0697 0.0476 0.0589	-0.1326 0.0548 0.0719 0.0776 0.0795	-0.0438 0.0863 0.0732 0.1014 0.1061	-0.0050 0.1033 0.1051 0.1209 0.1235	0.1017 0.1497 0.1659 0.1574 0.1661	0.1719 0.1990 0.1962 0.2105 0.2154	0.3010 0.3020 0.2915 0.2960 0.3123	-0.2294 -0.0100 -0.0008 0.0084 0.0201	-0.1263 0.0571 0.0881 0.0758 0.0817	0.0045 $0.1128$ $0.0951$ $0.1245$ $0.1310$	0.1779 0.2002 0.1954 0.2085 0.2154	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322
69. 68. 216. 8. 66. 218.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0018	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174	-0.0050 0.1033 0.1051 0.1209 0.1235 0.1376	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188
69. 68. 216. 8. 66. 218. 214.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0018 -0.0063	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0666	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187	-0.0050 0.1033 0.1051 0.1209 0.1235 0.1376 0.1369	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193
69. 68. 216. 8. 66. 218. 214. 64.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0018 -0.0063 0.0077	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0666 0.0947	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401	-0.0050 0.1033 0.1051 0.1209 0.1235 0.1376 0.1369 0.1564	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322 0.1663	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129
69. 68. 216. 8. 66. 218. 214. 64.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0018 -0.0063	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148 0.0138	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455 0.0429	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607 0.0625	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0666 0.0947 0.0950	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160 0.1158	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401 0.1382	$\begin{array}{c} -0.0050 \\ 0.1033 \\ 0.1051 \\ 0.1209 \\ 0.1235 \\ 0.1376 \\ 0.1369 \\ 0.1564 \\ 0.1577 \end{array}$	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904 0.1911	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319 0.2391	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252 0.3313	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420 0.0404	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108 0.1164	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322 0.1663 0.1598	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359 0.2397	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129 -0.0174
69. 68. 216. 8. 66. 218. 214. 64.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0018 -0.0063 0.0077 0.0034	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455 0.0429 0.0545	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607 0.0625 0.0752	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0947 0.0950 0.1058	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160 0.1158 0.1310	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401 0.1382 0.1514	$\begin{array}{c} -0.0050 \\ 0.1033 \\ 0.1051 \\ 0.1209 \\ 0.1235 \\ 0.1376 \\ 0.1369 \\ 0.1564 \\ 0.1577 \\ 0.1711 \end{array}$	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904 0.1911 0.2036	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319 0.2391 0.2478	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252 0.3313 0.3361	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420 0.0404 0.0569	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108 0.1164 0.1326	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322 0.1663 0.1598 0.1726	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359 0.2397 0.2474	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129 -0.0174 0.0000
69. 68. 216. 8. 66. 218. 214. 64. 118.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0063 0.0077 0.0034 0.0142	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148 0.0138 0.0263	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455 0.0429	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607 0.0625	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0666 0.0947 0.0950	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160 0.1158	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401 0.1382	$\begin{array}{c} -0.0050 \\ 0.1033 \\ 0.1051 \\ 0.1209 \\ 0.1235 \\ 0.1376 \\ 0.1369 \\ 0.1564 \\ 0.1577 \\ 0.1711 \\ 0.1674 \end{array}$	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904 0.1911	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319 0.2391	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252 0.3313 0.3361 0.3513	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420 0.0404	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108 0.1164	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322 0.1663 0.1598 0.1726 0.1807	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359 0.2397 0.2474 0.2564	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129 -0.0174
69. 68. 216. 8. 66. 218. 214. 64. 118. 15.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0063 0.0077 0.0034 0.0142 0.0105	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148 0.0138 0.0263 0.0206	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455 0.0429 0.0545 0.0482	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607 0.0625 0.0752 0.0683	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0947 0.0950 0.1058 0.1034	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160 0.1158 0.1310 0.1249	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401 0.1382 0.1514 0.1473	$\begin{array}{c} -0.0050 \\ 0.1033 \\ 0.1051 \\ 0.1209 \\ 0.1235 \\ 0.1376 \\ 0.1369 \\ 0.1564 \\ 0.1577 \\ 0.1711 \end{array}$	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904 0.1911 0.2036 0.2077	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319 0.2391 0.2478 0.2582	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252 0.3313 0.3361	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420 0.0404 0.0569 0.0563	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108 0.1164 0.1326 0.1280	0.0045 0.1128 0.0951 0.1245 0.1310 0.1391 0.1322 0.1663 0.1598 0.1726	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359 0.2397 0.2474	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129 -0.0174 0.0000 -0.0191
69. 68. 216. 8. 66. 218. 214. 64. 118. 15. 67.	-0.1842 -0.0346 -0.0277 -0.0196 -0.0081 -0.0063 0.0077 0.0034 0.0142 0.0105 0.0185	-0.2596 -0.0407 -0.0355 -0.0126 -0.0085 0.0045 0.0005 0.0148 0.0138 0.0263 0.0206 0.0227	-0.2078 -0.0039 -0.0146 0.0088 0.0207 0.0290 0.0223 0.0455 0.0429 0.0545 0.0482 0.0501	-0.2392 0.0025 0.0072 0.0223 0.0301 0.0397 0.0390 0.0607 0.0625 0.0752 0.0683 0.0739	-0.1854 0.0335 0.0697 0.0476 0.0589 0.0664 0.0947 0.0950 0.1058 0.1034 0.1199	-0.1326 0.0548 0.0719 0.0776 0.0795 0.0906 0.0947 0.1160 0.1158 0.1310 0.1249 0.1377	-0.0438 0.0863 0.0732 0.1014 0.1061 0.1174 0.1187 0.1401 0.1382 0.1514 0.1473 0.1500	$\begin{array}{c} -0.0050 \\ 0.1033 \\ 0.1051 \\ 0.1209 \\ 0.1235 \\ 0.1376 \\ 0.1369 \\ 0.1564 \\ 0.1577 \\ 0.1711 \\ 0.1674 \\ 0.1738 \end{array}$	0.1017 0.1497 0.1659 0.1574 0.1661 0.1701 0.1680 0.1904 0.1911 0.2036 0.2077 0.2138	0.1719 0.1990 0.1962 0.2105 0.2154 0.2214 0.2189 0.2319 0.2391 0.2478 0.2582 0.2451	0.3010 0.3020 0.2915 0.2960 0.3123 0.3135 0.3110 0.3252 0.3313 0.3361 0.3513 0.3371	-0.2294 -0.0100 -0.0008 0.0084 0.0201 0.0259 0.0213 0.0420 0.0404 0.0569 0.0563 0.0462	-0.1263 0.0571 0.0881 0.0758 0.0817 0.0915 0.0860 0.1108 0.1164 0.1326 0.1280 0.1325	$\begin{array}{c} 0.0045 \\ 0.1128 \\ 0.0951 \\ 0.1245 \\ 0.1310 \\ 0.1391 \\ 0.1322 \\ 0.1663 \\ 0.1598 \\ 0.1726 \\ 0.1807 \\ 0.1576 \end{array}$	0.1779 0.2002 0.1954 0.2085 0.2154 0.2238 0.2195 0.2359 0.2397 0.2474 0.2564 0.2523	-0.2839 -0.0658 -0.0579 -0.0298 -0.0322 -0.0188 -0.0193 -0.0129 -0.0174 0.0000 -0.0191 0.0030

Table IV. Continued

Run	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202	CP203	CP204	CP205	CP206	CP207	CP208	CP209
69.	-0.2377	-0.2889	-0.2410	-0.2817	-0.2189	-0.2264	-0.1746	-0.1889	-0.0930	-0.1098	-0.0399	0.0654	-0.2461	-0.2772	-0.2262	-0.2201
68.	-0.0378	-0.0499			-0.0090	-0.0047	0.0219	0.0205	0.0551	0.0384	0.0621		-0.0089	-0.0107	0.0142	0.0201
216.	-0.0337			-0.0401	0.0038	0.0265	0.0426	0.0263	0.0761	0.0373	0.0574		-0.0001	-0.0101	0.0183	0.0293
8.	-0.0128		-0.0029	0.0025	0.0166	0.0159	0.0360	0.0457	0.0516	0.0505	0.0669	0.1903	0.0127	0.0291	0.0457	0.0548
66.	0.0000	-0.0165	0.0024	-0.0023	0.0252	0.0289	0.0493	0.0515	0.0752	0.0633	0.0848	0.1985	0.0203	0.0230	0.0481	0.0573
218.	-0.0022	0.0012	0.0112	0.0168	0.0338	0.0347	0.0450	0.0507	0.0570	0.0493	0.0648	0.2053	0.0234	0.0351	0.0508	0.0644
214.	-0.0024	-0.0002	0.0091	0.0149	0.0238	0.0259	0.0335	0.0358	0.0380	0.0339	0.0524	0.1919	0.0196	0.0296	0.0470	0.0580
64.	0.0159	0.0130	0.0332	0.0288	0.0525	0.0522	0.0666	0.0612	0.0714	0.0544	0.0771	0.2190	0.0404	0.0478	0.0719	0.0798
118.	0.0037	0.0055	0.0178	0.0247	0.0410	0.0457	0.0613	0.0630	0.0713	0.0638	0.0812	0.2303	0.0317 $0.0438$	0.0415 $0.0582$	0.0621 $0.0801$	0.0794 $0.0985$
15.	0.0192	0.0232	0.0351	0.0397	0.0544 $0.0468$	0.0596 $0.0484$	0.0695 $0.0713$	0.0735 $0.0777$	0.0803 $0.0979$	0.0690 $0.0916$	0.0845 $0.1134$	0.2264 $0.2429$	0.0458 $0.0459$	0.0552 $0.0554$	0.0801 $0.0827$	0.0983 $0.0972$
67.	0.0066 $0.0234$	0.0043 $0.0188$	0.0218 $0.0401$	0.0243 $0.0287$	0.0468 $0.0552$	0.0484 $0.0654$	0.0713 $0.0692$	0.0777	0.0979	0.0310	0.1134 $0.0679$	0.2429 $0.2254$	0.0439 $0.0383$	0.0334 $0.0445$	0.0627 $0.0671$	0.0972
116. 17.	0.0234 $0.0270$	0.0166	0.0401 $0.0472$	0.0267 $0.0515$	0.0552 $0.0618$	0.0054 $0.0559$	0.0092 $0.0563$	0.0435	0.0380	0.0300 $0.0284$	0.0689	0.2424	0.0348	0.0443	0.0581	0.0300
63.	0.0270	0.0309	0.0412	0.0313 $0.0387$	0.0580	0.0559	0.0675	0.0433	0.0689	0.0254 $0.0555$	0.0860	0.2288	0.0345	0.0442 $0.0521$	0.0743	0.0851
05.	0.0209	0.0240	0.0410	0.0307	0.0000	0.0004	0.0010	0.0004	0.0003	0.0000	0.0000	0.2200	0.0400	0.0021	0.0140	0.0001
D	CID010	CD011	CD010	CD010	CD014	CD015	CD01C	CP217	CD010	CD010	CP220	CP221	CP222	CP223	CP225	CP226
Run	CP210	CP211	CP212	CP213	CP214	CP215	CP210	CPZII	CFZIO	CF 219	CF 220	CFZZI	CFZZZ	CF 223	CF 220	CF 220
69.	-0.0961	0.0360	0.2461	-0.2781	_0.2317	-0.2604	-0.1743	-0.2103	-0.1431	-0.1578	-0.0100	-0.0551	0.0478	0.0678	0.0856	0.1203
68.	0.0769	0.1139	-0.2401	-0.0230	-0.2017	-0.2004	0.0320	0.0232	0.0499	0.0419	0.1134	0.1062	0.1452	0.1613	0.2397	0.2050
216.	0.0703	0.1133	-0.0192	0.0004	0.0003	-0.0038	0.0447	0.0409	0.0647	0.0569	0.1232	0.0926	0.1605	0.1553	0.2292	0.1971
8.	0.0854	0.1406	0.0046	0.0059	0.0141	0.0157	0.0498	0.0480	0.0590	0.0649	0.1116	0.1269	0.1464	0.1719	0.2562	0.2090
66.	0.1024	0.1434	0.0114	0.0110	0.0223	0.0191	0.0629	0.0567	0.0774	0.0754	0.1321	0.1315	0.1626	0.1823	0.2599	0.2207
218.	0.0995	0.1591	0.0147	0.0173	0.0238	0.0280	0.0598	0.0580	0.0734	0.0789	0.1159	0.1362	0.1710	0.1984	0.2958	0.2532
214.	0.0951	0.1520	0.0178	0.0191	0.0185	0.0267	0.0497	0.0503	0.0726	0.0757	0.1139	0.1335	0.1666	0.1966	0.2793	0.2364
64.	0.1285	0.1808	0.0351	0.0304	0.0418	0.0418	0.0764	0.0725	0.1025	0.1019	0.1427	0.1618	0.1999	0.2169	0.2964	0.2607
118.	0.1250	0.1836	0.0245	0.0279	0.0342	0.0392	0.0665	0.0678	0.0926	0.0972	0.1405	0.1591	0.1929	0.2142	0.3236	0.2734
15.	0.1336	0.1917	0.0298	0.0374	0.0482	0.0568	0.0828	0.0862	0.1104	0.1163	0.1484	0.1682	0.2069	0.2293	0.3301	0.2826
67.	0.1480	0.1918	0.0294	0.0333	0.0500	0.0540	0.0878	0.0883	0.1144	0.1143	0.1648	0.1771	0.2028	0.2222	0.3177	0.2646
116.	0.1222	0.2001	0.0349	0.0394	0.0468	0.0452	0.0711	0.0736	0.1113	0.1148	0.1531	0.1698	0.2364	0.2454	0.3176	0.2938
17.	0.1235	0.2219	0.0361	0.0341	0.0354	0.0429	0.0537	0.0574	0.0946	0.1026	0.1451	0.1830	0.2330	0.2530	0.3317	0.3074
63.	0.1353	0.2042	0.0392	0.0354	0.0475	0.0505	0.0767	0.0744	0.1090	0.1119	0.1537	0.1786	0.2263	0.2470	0.3170	0.2924

Table IV. Continued

Run	CP227	CP228	CP229	CP230	CP231	CP232	CP233	CP234	CP235	CP236	CP237	CP238	CP239	CP240	CP241	CP242
	0.0762	0.1183	0.0653	0.1022	0.0902	0.1015	0.0878	0.0792	0.1868	0.1887	0.1560	0.1665	0.1542	0.1630	0.1382	0.2109
68. 216.	0.1792 $0.1721$	0.2094 $0.2120$	0.2008	0.2188	0.2093	0.2107	0.2463	0.1547	0.2388	0.2197	0.1846	0.1739	0.1654	0.1718	0.1723	0.2199
8.	0.1721 $0.2031$	0.2120 $0.2101$	0.1861 $0.2141$	$0.1940 \\ 0.2152$	0.1972 $0.2036$	0.1831 $0.2064$	0.2243 $0.2543$	0.1484	0.2219	0.1981	0.1792	0.1567	0.1599	0.1538	0.1672	0.2030
66.	0.2031 $0.1982$	0.2101 $0.2173$	0.2141 $0.2149$	0.2132 $0.2297$	0.2030 $0.2229$	0.2004 $0.2296$	0.2545 $0.2637$	$0.1546 \\ 0.1708$	0.2381 $0.2541$	0.2131 $0.2330$	0.1835 $0.1983$	0.1741 $0.1889$	0.1680 $0.1797$	0.1765 $0.1872$	0.1835	0.2147
218.	0.1302	0.2173 $0.2537$	0.2145 $0.2565$	0.2522	0.2350	0.2448	0.2037 $0.2976$	0.1708	0.2541 $0.2735$	0.2330 $0.2486$	0.1963 $0.2178$	0.1009 $0.2067$	0.1797	0.1872	$0.1901 \\ 0.2119$	0.2309 $0.2470$
214.	0.2318	0.2438	0.2420	0.2319	0.2172	0.2356	0.2905	0.1869	0.2755	0.2430 $0.2319$	0.2056	0.1974	0.1869	0.2042 $0.1930$	0.2119 $0.2052$	0.2470 $0.2424$
64.	0.2485	0.2635	0.2560	0.2575	0.2384	0.2521	0.3026	0.2109	0.2732	0.2513	0.2192	0.2142	0.2022	0.1330	0.2052 $0.2152$	0.2424 $0.2603$
118.	0.2589	0.2744	0.2746	0.2716	0.2570	0.2655	0.3180	0.2250	0.2897	0.2612	0.2325	0.2241	0.2210	0.2254	0.2333	0.2688
15.	0.2666	0.2787	0.2785	0.2726	0.2597	0.2636	0.3156	0.2215	0.2897	0.2635	0.2361	0.2231	0.2133	0.2178	0.2266	0.2601
67.	0.2362	0.2527	0.2678	0.2888	0.2814	0.2820	0.3167	0.2231	0.3033	0.2803	0.2416	0.2318	0.2213	0.2313	0.2329	0.2712
116.	0.2871	0.3020	0.2661	0.2425	0.2296	0.2500	0.3200	0.2251	0.2808	0.2564	0.2396	0.2223	0.2177	0.2181	0.2371	0.2795
17.	0.3150	0.3102	0.2788	0.2393	0.2159	0.2524	0.3237	0.2305	0.2850	0.2610	0.2428	0.2354	0.2273	0.2315	0.2456	0.2901
63.	0.2813	0.2859	0.2632	0.2491	0.2333	0.2570	0.3168	0.2211	0.2910	0.2713	0.2424	0.2333	0.2198	0.2283	0.2364	0.2815
1000	ALCOHOL SECTION															
Run	CP243	CP244	CP245	CP246	CP247	CP248	CP249	CP250	CP251	CP252	CP257	CP258	CP259	CP260	CP261	CP262
																CP262
69.	0.1914	0.2730	-0.2054	-0.2457	-0.1947	-0.0736	-0.2069	-0.2448	-0.1960	-0.0475	-0.0233	0.0045	-0.0301	-0.0001	-0.0472	-0.0260
69. 68.	0.1914 0.2340	0.2730 0.2609	-0.2054 -0.0625	-0.2457 -0.0285	-0.1947 0.0145	-0.0736 0.0345	-0.2069 -0.0391	-0.2448 -0.0085	-0.1960 0.0297	-0.0475 0.0947	-0.0233 -0.2041	0.0045 -0.0795	-0.0301 -0.0620	-0.0001 -0.0275	-0.0472 -0.0378	-0.0260 -0.0215
69. 68. 216.	0.1914 0.2340 0.2165	0.2730 0.2609 0.2471	-0.2054 -0.0625 -0.0635	-0.2457 -0.0285 -0.0311	-0.1947 0.0145 0.0189	-0.0736 0.0345 0.0489	-0.2069 -0.0391 -0.0263	-0.2448 -0.0085 -0.0109	-0.1960 0.0297 0.0363	-0.0475 0.0947 0.0909	-0.0233 -0.2041 -0.1793	0.0045 -0.0795 -0.0808	-0.0301 -0.0620 -0.0574	-0.0001 -0.0275 -0.0057	-0.0472 -0.0378 -0.0234	-0.0260 -0.0215 -0.0247
69. 68. 216. 8.	0.1914 0.2340 0.2165 0.2399	0.2730 0.2609 0.2471 0.2606	-0.2054 -0.0625 -0.0635 -0.0431	-0.2457 -0.0285 -0.0311 -0.0184	-0.1947 0.0145 0.0189 0.0255	-0.0736 0.0345 0.0489 0.0370	-0.2069 -0.0391 -0.0263 -0.0229	-0.2448 -0.0085 -0.0109 0.0097	-0.1960 0.0297 0.0363 0.0567	-0.0475 0.0947 0.0909 0.1074	-0.0233 -0.2041 -0.1793 -0.2082	0.0045 -0.0795 -0.0808 -0.0885	-0.0301 -0.0620 -0.0574 -0.0527	-0.0001 -0.0275 -0.0057 -0.0384	-0.0472 -0.0378 -0.0234 -0.0305	-0.0260 -0.0215 -0.0247 -0.0186
69. 68. 216. 8. 66.	0.1914 0.2340 0.2165 0.2399 0.2444	0.2730 0.2609 0.2471 0.2606 0.2736	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020	-0.1947 0.0145 0.0189 0.0255 0.0376	-0.0736 0.0345 0.0489 0.0370 0.0472	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136	-0.2448 -0.0085 -0.0109 0.0097 0.0234	-0.1960 0.0297 0.0363 0.0567 0.0604	-0.0475 0.0947 0.0909 0.1074 0.1208	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959	0.0045 -0.0795 -0.0808 -0.0885 -0.0667	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055	-0.0260 -0.0215 -0.0247 -0.0186 0.0146
69. 68. 216. 8.	0.1914 0.2340 0.2165 0.2399	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222
69. 68. 216. 8. 66. 218.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533 0.0471	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642 0.0554	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396 0.1379	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348
69. 68. 216. 8. 66. 218. 214.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073 -0.0033	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396 0.1379 0.1541	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348 -0.0096
69. 68. 216. 8. 66. 218. 214. 64.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663 0.2779	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660 0.3013	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337 -0.0317	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073 -0.0033 0.0082	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533 0.0471 0.0601	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642 0.0554 0.0681	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072 -0.0042	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322 0.0459	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807 0.0923	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396 0.1379 0.1541 0.1640	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732 -0.2692	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161 -0.1216	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726 -0.0731	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389 -0.0452	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333 -0.0341	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348
69. 68. 216. 8. 66. 218. 214. 64. 118. 15. 67.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663 0.2779 0.2942 0.2825 0.2883	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660 0.3013 0.2901 0.3029	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337 -0.0317 -0.0189 -0.0177 -0.0092	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073 -0.0033 0.0082 0.0177	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533 0.0471 0.0601 0.0672	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642 0.0554 0.0681 0.0676	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072 -0.0042 0.0089	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322 0.0459 0.0431	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807 0.0923 0.0989	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396 0.1379 0.1541 0.1640 0.1712	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732 -0.2692 -0.2828	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161 -0.1216 -0.1247	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726 -0.0731 -0.0737	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389 -0.0452 -0.0476	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333 -0.0341 -0.0355	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348 -0.0096 -0.0173
69. 68. 216. 8. 66. 218. 214. 64. 118. 15. 67.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663 0.2779 0.2942 0.2825 0.2883 0.3036	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660 0.3013 0.2901 0.3029 0.2969	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337 -0.0317 -0.0189 -0.0177 -0.0092 -0.0324	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073 -0.0033 0.0082 0.0177 0.0192 0.0240 -0.0021	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533 0.0471 0.0601 0.0672 0.0710 0.0626 0.0712	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642 0.0554 0.0681 0.0676 0.0690 0.0536 0.1075	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072 -0.0042 0.0089 0.0095 0.0031	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322 0.0459 0.0431 0.0506 0.0449 0.0441	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807 0.0923 0.0989 0.1050	-0.0475 0.0947 0.0909 0.1074 0.1208 0.1396 0.1379 0.1541 0.1640 0.1712 0.1671	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732 -0.2692 -0.2828 -0.2395	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161 -0.1216 -0.1247	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726 -0.0731 -0.0737 -0.0484	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389 -0.0452 -0.0476 -0.0172	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333 -0.0341 -0.0355	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348 -0.0096 -0.0173 -0.0194
69. 68. 216. 8. 66. 218. 214. 64. 118. 15. 67. 116.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663 0.2779 0.2942 0.2825 0.2883 0.3036 0.3163	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660 0.3013 0.2901 0.3029 0.2969 0.3065	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337 -0.0117 -0.0189 -0.0177 -0.0092 -0.0324 -0.0289	$\begin{array}{c} -0.2457 \\ -0.0285 \\ -0.0311 \\ -0.0184 \\ -0.0020 \\ 0.0073 \\ -0.0033 \\ 0.0082 \\ 0.0177 \\ 0.0192 \\ 0.0240 \\ -0.0021 \\ -0.0020 \end{array}$	$\begin{array}{c} -0.1947 \\ 0.0145 \\ 0.0189 \\ 0.0255 \\ 0.0376 \\ 0.0533 \\ 0.0471 \\ 0.0601 \\ 0.0672 \\ 0.0710 \\ 0.0626 \\ 0.0712 \\ 0.0749 \end{array}$	$\begin{array}{c} -0.0736 \\ 0.0345 \\ 0.0489 \\ 0.0370 \\ 0.0472 \\ 0.0642 \\ 0.0554 \\ 0.0681 \\ 0.0676 \\ 0.0690 \\ 0.0536 \\ 0.1075 \\ 0.1092 \end{array}$	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072 -0.0042 0.0089 0.0095 0.0031 0.0144 0.0103	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322 0.0459 0.0431 0.0506 0.0449 0.0441	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807 0.0923 0.0989 0.1050 0.0929 0.1101 0.1162	$\begin{array}{c} -0.0475 \\ 0.0947 \\ 0.0909 \\ 0.1074 \\ 0.1208 \\ 0.1396 \\ 0.1379 \\ 0.1541 \\ 0.1640 \\ 0.1712 \\ 0.1671 \\ 0.1705 \\ 0.1790 \end{array}$	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732 -0.2692 -0.2828 -0.2395 -0.2391 -0.2665	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161 -0.1247 -0.0915 -0.1104 -0.1234	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726 -0.0731 -0.0737 -0.0484 -0.0631 -0.0694	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389 -0.0452 -0.0476 -0.0172 -0.0194 -0.0447	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333 -0.0341 -0.0355 -0.0076 -0.0171 -0.0291	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348 -0.0096 -0.0173 -0.0194 0.0174
69. 68. 216. 8. 66. 218. 214. 64. 118. 15. 67.	0.1914 0.2340 0.2165 0.2399 0.2444 0.2710 0.2663 0.2779 0.2942 0.2825 0.2883 0.3036	0.2730 0.2609 0.2471 0.2606 0.2736 0.2865 0.2742 0.2660 0.3013 0.2901 0.3029 0.2969	-0.2054 -0.0625 -0.0635 -0.0431 -0.0342 -0.0220 -0.0337 -0.0117 -0.0189 -0.0177 -0.0092 -0.0324 -0.0289	-0.2457 -0.0285 -0.0311 -0.0184 -0.0020 0.0073 -0.0033 0.0082 0.0177 0.0192 0.0240 -0.0021	-0.1947 0.0145 0.0189 0.0255 0.0376 0.0533 0.0471 0.0601 0.0672 0.0710 0.0626 0.0712	-0.0736 0.0345 0.0489 0.0370 0.0472 0.0642 0.0554 0.0681 0.0676 0.0690 0.0536 0.1075	-0.2069 -0.0391 -0.0263 -0.0229 -0.0136 0.0037 -0.0072 -0.0042 0.0089 0.0095 0.0031	-0.2448 -0.0085 -0.0109 0.0097 0.0234 0.0388 0.0322 0.0459 0.0431 0.0506 0.0449 0.0441	-0.1960 0.0297 0.0363 0.0567 0.0604 0.0811 0.0807 0.0923 0.0989 0.1050 0.0929 0.1101	$\begin{array}{c} -0.0475 \\ 0.0947 \\ 0.0909 \\ 0.1074 \\ 0.1208 \\ 0.1396 \\ 0.1379 \\ 0.1541 \\ 0.1640 \\ 0.1712 \\ 0.1671 \\ 0.1705 \\ 0.1790 \end{array}$	-0.0233 -0.2041 -0.1793 -0.2082 -0.1959 -0.2557 -0.2641 -0.2732 -0.2692 -0.2828 -0.2395 -0.2391 -0.2665	0.0045 -0.0795 -0.0808 -0.0885 -0.0667 -0.1086 -0.1213 -0.1161 -0.1247 -0.0915 -0.1104 -0.1234	-0.0301 -0.0620 -0.0574 -0.0527 -0.0372 -0.0677 -0.0756 -0.0726 -0.0731 -0.0737 -0.0484 -0.0631 -0.0694	-0.0001 -0.0275 -0.0057 -0.0384 -0.0059 -0.0448 -0.0573 -0.0389 -0.0452 -0.0476 -0.0172 -0.0194	-0.0472 -0.0378 -0.0234 -0.0305 -0.0055 -0.0372 -0.0485 -0.0333 -0.0341 -0.0355 -0.0076 -0.0171 -0.0291	-0.0260 -0.0215 -0.0247 -0.0186 0.0146 -0.0222 -0.0348 -0.0096 -0.0173 -0.0194 0.0174 -0.0068

Table IV. Concluded

680.0358 -0.0236 -0.0303 -0.0106 -0.0119 0.0031 -0.0251 -0.0374 -0.0684 -0.0709 0.0108 -0.0594 0.2609 0.2805 0.3111 0.3788 2160.0348 -0.0247 -0.0171 -0.0171 0.0010 0.0263 -0.0124 -0.0083 -0.0406 -0.0832 0.0266 -0.0394 0.2753 0.3263 0.3051 0.3888 80.0161 -0.0113 -0.0104 0.0002 -0.0009 -0.0045 -0.0170 -0.0473 -0.06698 -0.0584 -0.0215 -0.0662 -0.0394 0.2753 0.3263 0.3051 0.3888 80.0161 -0.0113 -0.0104 0.0002 -0.0009 -0.00045 -0.0170 -0.0473 -0.06698 -0.0584 -0.0215 -0.0662 -0.0394 0.2540 0.2361 0.3090 0.3544 660.0141 -0.0043 -0.0072 0.0103 0.0102 0.0207 -0.0016 -0.0248 -0.0569 -0.0498 0.0073 -0.0470 0.2600 0.2586 0.2933 0.3555 2180.0023 0.0030 0.0038 0.0129 0.0091 0.0025 -0.0200 -0.0613 -0.0915 -0.0781 -0.0146 -0.0811 0.2834 0.2819 0.3588 0.4017 0.0000 0.0048 0.0060 0.0151 0.0112 0.0011 -0.0239 -0.0698 -0.1008 -0.0863 -0.0110 -0.0893 0.2838 0.2833 0.3696 0.4103 0.0000 0.0144 0.0104 0.0258 0.0183 0.0140 -0.0239 -0.0669 -0.1011 -0.0850 -0.0088 -0.0820 0.2856 0.2882 0.3500 0.408 118. 0.0053 0.0124 0.0154 0.0253 0.0217 0.0130 -0.0160 -0.0665 -0.1033 -0.0887 0.0030 -0.0924 0.2867 0.2686 0.3471 0.4085 15. 0.0114 0.0178 0.0216 0.0308 0.0277 0.0168 -0.0139 -0.0663 -0.1032 -0.0902 0.0106 -0.0941 0.2960 0.2804 0.3603 0.4166 0.0012 0.0022 0.0229 0.0246 0.0354 0.0320 0.0334 0.0081 -0.0364 -0.0810 -0.0619 0.0010 -0.0690 0.2723 0.2341 0.2954 0.3711 0.0210 0.0277 0.0320 0.0426 0.0353 0.0140 -0.0546 -0.0806 -0.1105 -0.0902 0.0045 -0.0863 0.3417 0.3920 0.4265 0.353 0.0140 -0.0246 -0.0806 -0.1105 -0.0902 0.0045 -0.0863 0.3420 0.3762 0.4554 0.473 63. 0.0182 0.0284 0.0302 0.0464 0.0414 0.0364 0.0025 -0.0404 -0.0804 -0.0643 0.0166 -0.0595 0.3205 0.3408 0.3928 0.4296 0.0038 0.3341 0.2818 0.3089 0.2715 0.3146 0.2412 0.2676 0.3091 0.2917 0.0320 0.0466 0.2412 0.2676 0.3091 0.0046 0.0045 0.0046 0.0045 0.0046 0.0045 0.0046 0.0045 0.0046 0.0045 0.0046 0.0045 0.0046 0.0045 0.0046	Run	CP263	CP264	CP265	CP266	CP267	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278
17. 0.0210 0.0277 0.0320 0.0426 0.0353 0.0140 -0.0246 -0.0806 -0.1105 -0.0902 0.0045 -0.0863 0.3420 0.3762 0.4554 0.473-63. 0.0182 0.0284 0.0302 0.0464 0.0414 0.0364 0.0025 -0.0404 -0.0804 -0.0643 0.0166 -0.0595 0.3205 0.3408 0.3928 0.4290  Run CP279 CP280 CP281 CP282 CP283 CP284  69. 0.3050 0.3108 0.3107 0.3643 0.2885 0.2002 68. 0.3981 0.3842 0.3448 0.2973 0.2672 0.3010 216. 0.4087 0.3609 0.3455 0.2955 0.2715 0.3146 8. 0.3743 0.3863 0.3402 0.2819 0.2715 0.2917 66. 0.4015 0.4023 0.3567 0.3047 0.2818 0.3089 218. 0.4033 0.3880 0.3286 0.2600 0.2665 0.3118 214. 0.4084 0.3881 0.3106 0.2442 0.2676 0.3091 64. 0.4177 0.4136 0.3341 0.2712 0.2851 0.3465 118. 0.4280 0.4403 0.3708 0.2971 0.3055 0.3599 15. 0.4304 0.4080 0.3380 0.2726 0.2921 0.3361	68. 216. 8. 66. 218. 214. 64. 118.	-0.0358 -0.0348 -0.0161 -0.0141 -0.0023 0.0000 0.0010 0.0053 0.0114	$\begin{array}{c} -0.0236 \\ -0.0247 \\ -0.0113 \\ -0.0043 \\ 0.0030 \\ 0.0048 \\ 0.0114 \\ 0.0124 \\ 0.0178 \end{array}$	-0.0303 -0.0171 -0.0104 -0.0072 0.0038 0.0060 0.0104 0.0154 0.0216	$\begin{array}{c} -0.0106 \\ -0.0171 \\ 0.0002 \\ 0.0103 \\ 0.0129 \\ 0.0151 \\ 0.0258 \\ 0.0253 \\ 0.0308 \end{array}$	-0.0119 0.0010 -0.0009 0.0102 0.0091 0.0112 0.0183 0.0217 0.0277	$\begin{array}{c} 0.0031 \\ 0.0263 \\ -0.0045 \\ 0.0207 \\ 0.0025 \\ 0.0011 \\ 0.0140 \\ 0.0130 \\ 0.0168 \end{array}$	$\begin{array}{c} -0.0251 \\ -0.0124 \\ -0.0170 \\ -0.0016 \\ -0.0200 \\ -0.0239 \\ -0.0203 \\ -0.0160 \\ -0.0139 \end{array}$	$\begin{array}{c} -0.0374 \\ -0.0083 \\ -0.0473 \\ -0.0248 \\ -0.0613 \\ -0.0629 \\ -0.0665 \\ -0.0663 \end{array}$	-0.0684 -0.0406 -0.0698 -0.0569 -0.0915 -0.1008 -0.1011 -0.1033 -0.1032	-0.0709 -0.0832 -0.0584 -0.0498 -0.0781 -0.0863 -0.0850 -0.0887 -0.0902	0.0108 0.0266 -0.0215 0.0073 -0.0146 -0.0110 -0.0088 0.0030 0.0106	-0.0594 -0.0394 -0.0662 -0.0470 -0.0811 -0.0893 -0.0820 -0.0924 -0.0941	0.2609 0.2753 0.2540 0.2600 0.2834 0.2838 0.2856 0.2867 0.2960	0.2805 0.3263 0.2361 0.2586 0.2819 0.2833 0.2882 0.2686 0.2804	0.3111 0.3051 0.3090 0.2933 0.3588 0.3696 0.3500 0.3471 0.3603	0.3235 0.3789 0.3881 0.3549 0.3652 0.4017 0.4109 0.4081 0.4083 0.4169 0.3718
69. 0.3050 0.3108 0.3107 0.3643 0.2885 0.2002 68. 0.3981 0.3842 0.3448 0.2973 0.2672 0.3010 216. 0.4087 0.3609 0.3455 0.2955 0.2715 0.3146 8. 0.3743 0.3863 0.3402 0.2819 0.2715 0.2917 66. 0.4015 0.4023 0.3567 0.3047 0.2818 0.3089 218. 0.4033 0.3880 0.3286 0.2600 0.2665 0.3118 214. 0.4084 0.3881 0.3106 0.2442 0.2676 0.3091 64. 0.4177 0.4136 0.3341 0.2712 0.2851 0.3465 118. 0.4280 0.4403 0.3708 0.2971 0.3055 0.3599 15. 0.4304 0.4080 0.3380 0.2726 0.2921 0.3361	116. 17.	$0.0152 \\ 0.0210$	$0.0229 \\ 0.0277$	$0.0297 \\ 0.0320$	$0.0348 \\ 0.0426$	0.0353	0.0140	-0.0154 -0.0246	-0.0509 -0.0806	-0.0862 -0.1105	-0.0935 -0.0902	$0.0401 \\ 0.0045$	-0.0676 -0.0863	$0.3417 \\ 0.3420$	0.3762	0.4554	0.4735 $0.4734$ $0.4290$
68.       0.3981       0.3842       0.3448       0.2973       0.2672       0.3010         216.       0.4087       0.3609       0.3455       0.2955       0.2715       0.3146         8.       0.3743       0.3863       0.3402       0.2819       0.2715       0.2917         66.       0.4015       0.4023       0.3567       0.3047       0.2818       0.3089         218.       0.4033       0.3880       0.3286       0.2600       0.2665       0.3118         214.       0.4084       0.3881       0.3106       0.2442       0.2676       0.3091         64.       0.4177       0.4136       0.3341       0.2712       0.2851       0.3465         118.       0.4280       0.4403       0.3708       0.2971       0.3055       0.3599         15.       0.4304       0.4080       0.3380       0.2726       0.2921       0.3361	Run	CP279	CP280	CP281	CP282	CP283	CP284										
67. 0.4174 0.4363 0.3980 0.3429 0.3172 0.3334 116. 0.4432 0.3409 0.2645 0.2108 0.2555 0.3411 17. 0.4300 0.3392 0.2266 0.1814 0.2578 0.3484	68. 216. 8. 66. 218. 214. 64. 118. 15. 67. 116.	0.3981 0.4087 0.3743 0.4015 0.4033 0.4084 0.4177 0.4280 0.4304 0.4174 0.4432	0.3842 0.3609 0.3863 0.4023 0.3880 0.3881 0.4136 0.4403 0.4080 0.4363 0.3409	0.3448 0.3455 0.3402 0.3567 0.3286 0.3106 0.3341 0.3708 0.3380 0.3980 0.2645	0.2973 0.2955 0.2819 0.3047 0.2600 0.2442 0.2712 0.2971 0.2726 0.3429 0.2108	0.2672 0.2715 0.2715 0.2818 0.2665 0.2676 0.2851 0.3055 0.2921 0.3172 0.2555	0.3010 0.3146 0.2917 0.3089 0.3118 0.3091 0.3465 0.3599 0.3361 0.3334 0.3411										

Table V. Pressure Coefficients for l/h=11.7 Cavity

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
74.	0.30	1.0	1065.1	1132.3	65.7	83.7	0.7999	-0.2404	-0.2871	-0.2163	-0.2275	-0.1705	-0.1578	-0.0979	-0.1020	-0.0732
273.	0.59	1.6	757.5	962.2	187.5	82.4	0.9715	-0.2143	-0.2962	-0.2250	-0.2183	-0.1771	-0.1453	-0.0976	-0.0816	-0.0667
39.	0.60	1.6	799.8	1020.4	201.8	89.9	0.9341	-0.2413	-0.3043	-0.2363	-0.2123	-0.1737	-0.1483	-0.0820	-0.0853	-0.0671
136.	0.60	3.4	1666.9	2124.0	418.2	88.3	0.9671	-0.3027	-0.2959	-0.2198	-0.2012	-0.1702	-0.1083	-0.0819	-0.0712	-0.0601
173.	0.80	1.5	513.2	784.2	231.4	85.7	1.1199		-0.3678						-0.0849	-0.0674
41.	0.80	3.3	1213.6	1846.0	540.8	115.0		-0.3226							-0.0692	-0.0552
236.	0.80	4.0	1393.0	2123.6	624.2	97.4										-0.0562
172.	0.85	1.6	545.1	870.8	273.2	118.0				-0.3087				-0.0954	-0.0816	-0.0583
240.	0.85	3.3	1117.3	1794.0	566.5	115.7	1.1554							-0.0895	-0.0661	-0.0509
37.	0.85	4.0	1324.2	2121.2	667.9	110.7	1.1524			-0.2985			-0.1421	-0.0815	-0.0682	-0.0517
272.	0.89	1.6	518.6	869.6	288.9	116.9	1.2067	-0.2005		-0.4270	-0.4121	-0.2667		-0.0839	-0.0637	-0.0404
38.	0.90	1.9	571.1	966.6	324.3	95.8	1.1814	-0.1866	-0.4600	-0.4206				-0.0696	-0.0580	-0.0383
140.	0.90	3.3	1025.4	1733.0	580.5	112.7		00-0	-0.4862	-0.4222	-0.3936	-0.2306		-0.0721	-0.0492	-0.0335
271.	0.95	1.8	516.3	921.0	324.9	117.6	1.2455	-0.1047	-0.3148	-0.3265	-0.3786	-0.3702	-0.3794	-0.2959	-0.1806	-0.0663
D	CD11	CD10	CD19	CD14	CD15	CD16	CD17	CD10	GP10	CDao	CD01	CDaa	CD94	CIDAR	CDac	CD07
Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
74	-0.1120	-0.0830	-0.0875	-0.0471	-0.0476	-0.0762	-0.0901	-0.0452	-0.0749	-0.0597	-0.0687	-0.0878	-0.0755	-0.1054	-0.0652	-0.0818
273.	-0.0846	-0.0694	-0.0547	-0.0360	-0.0240			-0.0374					-0.0601	-0.0794	-0.0580	-0.0592
39.	-0.0930	-0.0717	-0.0469	-0.0373	-0.0373				-0.0489		-0.0600		-0.0534	-0.0737	-0.0478	-0.0754
136.	-0.0758	-0.0617	-0.0362	-0.0334	-0.0187	-0.0541	-0.0413		-0.0366	-0.0341	-0.0331	-0.0396	-0.0569	-0.0701	-0.0581	-0.0568
173.	-0.0830	-0.0681	-0.0452	-0.0300	-0.0217	-0.0548	-0.0499	-0.0346	-0.0392	-0.0340	-0.0286	-0.0392	-0.0463	-0.0614	-0.0486	-0.0628
41.	-0.0678	-0.0512	-0.0305	-0.0253	-0.0065	-0.0401	-0.0339	-0.0263	-0.0293	-0.0287	-0.0147	-0.0294	-0.0419	-0.0587	-0.0499	-0.0486
236.	-0.0667	-0.0512	-0.0292	-0.0254	-0.0060	-0.0403	-0.0313	-0.0266	-0.0279	-0.0284	-0.0137	-0.0263	-0.0432	-0.0562	-0.0514	-0.0476
172.	-0.0788	-0.0592	-0.0368	-0.0203	-0.0182	-0.0488	-0.0484	-0.0267	-0.0366	-0.0211	-0.0281	-0.0370	-0.0336	-0.0553	-0.0387	-0.0626
240.	-0.0625	-0.0464	-0.0251	-0.0208	-0.0025	-0.0364	-0.0304	-0.0241	-0.0268	-0.0244	-0.0105	-0.0246	-0.0364	-0.0522	-0.0461	-0.0475
37.	-0.0660	-0.0492	-0.0204	-0.0189	-0.0084	-0.0380	-0.0317	-0.0236	-0.0260	-0.0124	-0.0226	-0.0213	-0.0341	-0.0454	-0.0428	-0.0510
272.	-0.0606	-0.0432	-0.0217	-0.0082	-0.0076			-0.0209						-0.0421	-0.0306	-0.0528
38.	-0.0576	-0.0415	-0.0111	-0.0100				-0.0214			-0.0294			-0.0384	-0.0297	-0.0575
140.	-0.0479	-0.0341	-0.0097		0.00-	-0.0318		-0.0212			-0.0118			-0.0410	-0.0391	-0.0465
271.	-0.0285	0.0020	0.0191	0.0294	0.0254	-0.0176	-0.0224	-0.0118	-0.0215	-0.0102	-0.0059	-0.0211	-0.0218	-0.0389	-0.0337	-0.0539

Table V. Continued

Run	CP38	CP39	CP40	CP41	CP42	CP43	CP44	CP45	CP46	CP47	CP48	CP49	CP50	CP65	CP66	CP67
74.	-0.0498	-0.0186	0.0371	-0.0788	-0.0376	0.0172	-0.1378	-0.1590	-0.1278	-0.1441	-0.1460	-0.1650	-0.1333	-0.1674	-0.1460	-0.1389
273.	-0.0470	0.0017		-0.0479	-0.0347										-0.1245	
39.	-0.0390	0.0069	0.0541	-0.0615	-0.0310	0.0576	-0.1197	-0.1309	-0.1352	-0.1361	-0.1143	-0.1487	-0.1150	-0.1364	-0.1341	-0.1146
136.	-0.0423	0.0119	0.0568	-0.0420	-0.0310	0.0575	-0.1148	-0.1184	-0.1140	-0.1142	-0.1152	-0.1173	-0.1129	-0.1236	-0.1250	-0.1098
173.	-0.0505	-0.0051	0.0646	-0.0414	-0.0414	0.0620	-0.1061	-0.1157	-0.1029	-0.1044	-0.1102	-0.1167	-0.1069	-0.1215	-0.1140	-0.1106
41.	-0.0463	0.0011	0.0653	-0.0298	-0.0351	0.0619	-0.0946								-0.0951	-0.1001
	-0.0460	0.0027		-0.0260	-0.0351					-0.0849						-0.0996
172.	-0.0455	-0.0039	0.0708	-0.0364	-0.0364		0.00 20	-0.1084	0.00	0.0000					-0.1030	-0.1058
240.	-0.0462	-0.0027	0.0000	-0.0279	-0.0357	0.00=0	-0.0859			-0.0789					-0.0874	-0.0925
37.	-0.0424	0.0010	0.0658	-0.0273	-0.0333	0.0688	-0.0825	-0.0883		-0.0823					-0.0921	-0.0891
272.	-0.0391	-0.0032		-0.0265	-0.0310		-0.0754						-0.0740		-0.0830	-0.0888
38.	-0.0373	0.0005		-0.0309	-0.0318		-0.0760							-0.0943	-0.0919	0.00
140.	-0.0420			-0.0250											-0.0787	
271.	-0.0448	-0.0136	0.0668	-0.0253	-0.0374	0.0624	-0.0683	-0.0817	-0.0616	-0.0619	-0.0726	-0.0805	-0.0673	-0.0909	-0.0737	-0.0804
Run	CP68	CP80	CP84	CP85	CP97	CP98	CP99	CP100	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108
7.4	0.0261	0.1467	0.1400	0.1601	0.1657	0.1406	0.1604	0.1949	0.1700	0.1400	0.1691	0.1575	0.1091	0.1407	0.1641	0.1100
74.		-0.1407					-0.1684 $-0.1405$								-0.1641 -0.1353	
273. 39.	0.010=	-0.1319 $-0.1225$					-0.1403 $-0.1287$									-0.1079
39. 136.	0.0020				-0.1321 $-0.1187$					-0.1245 $-0.1219$					-0.1350	-0.1058
173.	0.0100						-0.1221								-0.1202	-0.1052
41.							-0.1218								0.2-02	-0.1030
236.															-0.1074	0.000.
172.							-0.1163									-0.0966
240.							-0.1103									-0.0863
37.							-0.0905								0.0000	-0.0868
272.	0.0308						-0.0981								-0.0931	-0.0799
38.	0.000	-0.0820					-0.0861								-0.0905	-0.0822
140.	0.0022	-0.0320					-0.0841								-0.0847	-0.0757
271.		0.0.0													-0.0835	
	3.0100	5.0010	3.00	3.0020	3.0020	5.0.00	5.0020	5.0.00	3.0001	3.0.00	3.00-0	3,0012	3.00.0	3.0.00	3.0000	

Table V. Continued

Run	CP109	CP110	CP111	CP112	CP113	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135
	-0.0701		0.0212		0.0524		0.1042	0.0760	0.1624	-0.1773	-0.1495	-0.1667	-0.1491	-0.1734	-0.1455	-0.1864
273. 39.	-0.0547 $-0.0624$	0.0047 $0.0114$	0.0451 $0.0385$		0.0907	0.1254	0.1443	0.0831						-0.1424		
136.	-0.0024 $-0.0486$	0.0114 $0.0089$	0.0585 $0.0510$		$0.0808 \\ 0.1010$	0.1199 $0.1265$	0.1364 $0.1487$	0.0913						-0.1421		
173.	-0.0430		0.0310		0.1010 $0.0988$	0.1205 $0.1355$	0.1407	0.0947 $0.0513$	0.1444	0.1248	0.1225	0.1271	-0.1258	-0.1298 $-0.1253$	-0.1290	-0.1465
	-0.0605		0.0376		0.1080	0.1303 $0.1404$	0.1644	0.0513	0.0007	-0.1225	0.1170	0.1240	0.1190	-0.1253 $-0.1103$	-0.1175	0.1330
	-0.0603		0.0379		0.1095	0.1410	0.1665	0.0533	0.0867	-0.1130	-0.1032	-0.1121	-0.1001	-0.1103 $-0.1074$	0.1001	0.1203
	-0.0726		0.0269	0.0753	0	0.1463	0.1676	0.0433	0.0736	-0.1177	-0.1023	-0.1073	-0.1000	-0.1074	-0.1000	-0.1190
240.	-0.0597	-0.0227	0.0298		0.1058	0.1412	0.1680	0.0397						-0.1018		
37.	-0.0626	-0.0167	0.0293	0.0760	0.1076	0.1446	0.1724	0.0443						-0.0990		
	-0.0622		0.0261	0.0742	0.1031	0.1508	0.1737	0.0335	0.0568	-0.0988	-0.0837	-0.0994	-0.0901	-0.0998	-0.0888	-0.1018
	-0.0623		0.0260	0.0739	0.1026	0.1454	0.1720	0.0411						-0.0956		
	-0.0564		0.0242	0.0691	0.1033	0.1427	0.1709	0.0313						-0.0883		
271.	-0.0563	-0.0242	0.0166	0.0618	0.0944	0.1408	0.1666	0.0165	0.0375	-0.0928	-0.0791	-0.0935	-0.0847	-0.0921	-0.0787	-0.0926
ъ	CD400	OD: OF	OT			2										
Run	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144	CP145	CP146	CP147	CP148	CP149	CP150	CP151
74.	-0.1738	-0.1518	-0.0412	0.0409	0.1400	0.1547	-0.1512	-0.1711	-0.1499	-0.1882	-0.1419	-0.1787	-0.1693	-0.1968	-0.1301	-0.0523
74. 273.	-0.1738 -0.1572	-0.1518 -0.1269	-0.0412 -0.0562	0.0409 0.0270	0.1400 0.1165	0.1547 $0.1697$	-0.1512 -0.1394	-0.1711 -0.1466	-0.1499 -0.1351	-0.1882 -0.1552	-0.1419 -0.1296	-0.1787 -0.1476	-0.1693 -0.1569	-0.1968 -0.1704	-0.1301 -0.1258	-0.0523 -0.0567
74. 273. 39.	-0.1738 -0.1572 -0.1436	-0.1518 -0.1269 -0.1208	-0.0412 -0.0562 -0.0354	0.0409 0.0270 0.0425	$0.1400 \\ 0.1165 \\ 0.1254$	0.1547 0.1697 0.1639	-0.1512 -0.1394 -0.1207	-0.1711 -0.1466 -0.1306	-0.1499 -0.1351 -0.1301	-0.1882 -0.1552 -0.1395	-0.1419 -0.1296 -0.1282	-0.1787 -0.1476 -0.1429	-0.1693 -0.1569 -0.1404	-0.1968 -0.1704 -0.1489	-0.1301 -0.1258 -0.1109	-0.0523 -0.0567 -0.0491
74. 273. 39. 136.	-0.1738 -0.1572 -0.1436 -0.1420	-0.1518 -0.1269 -0.1208 -0.1141	-0.0412 -0.0562 -0.0354 -0.0469	0.0409 0.0270 0.0425 0.0344	$0.1400 \\ 0.1165 \\ 0.1254 \\ 0.1198$	0.1547 0.1697 0.1639 0.1715	-0.1512 -0.1394 -0.1207 -0.1240	-0.1711 -0.1466 -0.1306 -0.1274	-0.1499 -0.1351 -0.1301 -0.1262	-0.1882 -0.1552 -0.1395 -0.1318	-0.1419 -0.1296 -0.1282 -0.1261	-0.1787 -0.1476 -0.1429 -0.1347	-0.1693 -0.1569 -0.1404 -0.1432	-0.1968 -0.1704 -0.1489 -0.1456	-0.1301 -0.1258 -0.1109 -0.1151	-0.0523 -0.0567 -0.0491 -0.0472
74. 273. 39.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791	0.0409 0.0270 0.0425 0.0344 -0.0222	0.1400 0.1165 0.1254 0.1198 0.0559	0.1547 0.1697 0.1639 0.1715 0.1204	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828
74. 273. 39. 136. 173.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791 -0.0737	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182	$\begin{array}{c} 0.1400 \\ 0.1165 \\ 0.1254 \\ 0.1198 \\ 0.0559 \\ 0.0569 \end{array}$	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725
74. 273. 39. 136. 173. 41.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791 -0.0737 -0.0767	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170	$\begin{array}{c} 0.1400 \\ 0.1165 \\ 0.1254 \\ 0.1198 \\ 0.0559 \\ 0.0569 \\ 0.0578 \end{array}$	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216 -0.1167	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722
74. 273. 39. 136. 173. 41. 236. 172. 240.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791 -0.0737 -0.0767 -0.0727 -0.0750	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170 -0.0277 -0.0298	0.1400 0.1165 0.1254 0.1198 0.0559 0.0569 0.0578 0.0476 0.0369	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216 -0.1167 -0.1261 -0.1135	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1136 -0.1090	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784
74. 273. 39. 136. 173. 41. 236. 172. 240. 37.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141 -0.1056	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045 -0.1001	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791 -0.0737 -0.0767 -0.0727 -0.0750 -0.0665	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170 -0.0277 -0.0298 -0.0215	0.1400 0.1165 0.1254 0.1198 0.0559 0.0569 0.0578 0.0476 0.0369 0.0417	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996 0.0986	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032 -0.0926	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068 -0.0965	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033 -0.0988	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216 -0.1167 -0.1261 -0.1135 -0.1014	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991 -0.0955	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042 -0.0992	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1136 -0.1090 -0.0975	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201 -0.1051	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027 -0.0948	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784 -0.0717 -0.0685
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141 -0.1056 -0.1000	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045 -0.1001 -0.1007	-0.0412 -0.0562 -0.0354 -0.0469 -0.0791 -0.0737 -0.0767 -0.0727 -0.0750 -0.0665 -0.0664	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170 -0.0277 -0.0298 -0.0215 -0.0341	0.1400 0.1165 0.1254 0.1198 0.0559 0.0569 0.0578 0.0476 0.0369 0.0417 0.0285	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996 0.0986 0.0808	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032 -0.0926 -0.0896	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068 -0.0965 -0.0989	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033 -0.0988 -0.0948	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216 -0.1167 -0.1261 -0.1135 -0.1014 -0.1069	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991 -0.0955 -0.0875	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042 -0.0992 -0.0988	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1136 -0.1090 -0.0975 -0.0942	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201 -0.1051 -0.1079	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027 -0.0948 -0.0909	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784 -0.0717 -0.0685 -0.0717
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141 -0.1056 -0.1000 -0.0954	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045 -0.1001 -0.1007 -0.0965	$\begin{array}{c} -0.0412 \\ -0.0562 \\ -0.0354 \\ -0.0469 \\ -0.0791 \\ -0.0737 \\ -0.0767 \\ -0.0727 \\ -0.0750 \\ -0.0665 \\ -0.0664 \\ -0.0594 \end{array}$	$\begin{array}{c} 0.0409 \\ 0.0270 \\ 0.0425 \\ 0.0344 \\ -0.0222 \\ -0.0182 \\ -0.0170 \\ -0.0277 \\ -0.0298 \\ -0.0215 \\ -0.0341 \\ -0.0239 \end{array}$	0.1400 0.1165 0.1254 0.1198 0.0559 0.0569 0.0578 0.0476 0.0369 0.0417 0.0285 0.0339	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996 0.0986 0.0808 0.0834	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032 -0.0926 -0.0896 -0.0813	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068 -0.0965 -0.0989 -0.0888	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033 -0.0988 -0.0948 -0.0920	-0.1882 -0.1552 -0.1395 -0.1318 -0.1319 -0.1216 -0.1167 -0.1261 -0.1135 -0.1014 -0.1069 -0.0935	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991 -0.0955 -0.0875 -0.0872	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042 -0.0992 -0.0988 -0.0935	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1136 -0.1090 -0.0975 -0.0942 -0.0879	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201 -0.1051 -0.1079 -0.0954	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027 -0.0948 -0.0909 -0.0850	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784 -0.0717 -0.0685 -0.0717
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38. 140.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141 -0.1056 -0.1000 -0.0954 -0.0945	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045 -0.1001 -0.1007 -0.0965 -0.0908	$\begin{array}{c} -0.0412 \\ -0.0562 \\ -0.0354 \\ -0.0469 \\ -0.0791 \\ -0.0737 \\ -0.0767 \\ -0.0727 \\ -0.0750 \\ -0.0665 \\ -0.0664 \\ -0.0594 \\ -0.0660 \end{array}$	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170 -0.0277 -0.0298 -0.0215 -0.0341 -0.0239 -0.0308	$\begin{array}{c} 0.1400 \\ 0.1165 \\ 0.1254 \\ 0.1198 \\ 0.0559 \\ 0.0569 \\ 0.0578 \\ 0.0476 \\ 0.0369 \\ 0.0417 \\ 0.0285 \\ 0.0339 \\ 0.0241 \end{array}$	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996 0.0986 0.0808 0.0834 0.0757	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032 -0.0926 -0.0896 -0.0813 -0.0846	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068 -0.0965 -0.0989 -0.0888 -0.0887	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033 -0.0988 -0.0948 -0.0920 -0.0887	-0.1882 -0.1552 -0.1395 -0.1318 -0.1216 -0.1167 -0.1261 -0.1135 -0.1014 -0.1069 -0.0935 -0.0927	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991 -0.0955 -0.0875 -0.0872	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042 -0.0992 -0.0988 -0.0935 -0.0880	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1090 -0.0975 -0.0942 -0.0879 -0.0899	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201 -0.1051 -0.1079 -0.0954 -0.0974	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027 -0.0948 -0.0909 -0.0850 -0.0870	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784 -0.0717 -0.0685 -0.0717 -0.0661 -0.0663
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38.	-0.1738 -0.1572 -0.1436 -0.1420 -0.1346 -0.1249 -0.1254 -0.1199 -0.1141 -0.1056 -0.1000 -0.0954	-0.1518 -0.1269 -0.1208 -0.1141 -0.1240 -0.1105 -0.1091 -0.1178 -0.1045 -0.1001 -0.1007 -0.0965 -0.0908	$\begin{array}{c} -0.0412 \\ -0.0562 \\ -0.0354 \\ -0.0469 \\ -0.0791 \\ -0.0737 \\ -0.0767 \\ -0.0727 \\ -0.0750 \\ -0.0665 \\ -0.0664 \\ -0.0594 \end{array}$	0.0409 0.0270 0.0425 0.0344 -0.0222 -0.0182 -0.0170 -0.0277 -0.0298 -0.0215 -0.0341 -0.0239 -0.0308	0.1400 0.1165 0.1254 0.1198 0.0559 0.0569 0.0578 0.0476 0.0369 0.0417 0.0285 0.0339	0.1547 0.1697 0.1639 0.1715 0.1204 0.1249 0.1254 0.1056 0.0996 0.0986 0.0808 0.0834 0.0757	-0.1512 -0.1394 -0.1207 -0.1240 -0.1191 -0.1126 -0.1118 -0.1076 -0.1032 -0.0926 -0.0896 -0.0813 -0.0846	-0.1711 -0.1466 -0.1306 -0.1274 -0.1259 -0.1165 -0.1131 -0.1179 -0.1068 -0.0965 -0.0989 -0.0888 -0.0887	-0.1499 -0.1351 -0.1301 -0.1262 -0.1218 -0.1095 -0.1075 -0.1143 -0.1033 -0.0988 -0.0948 -0.0920 -0.0887	-0.1882 -0.1552 -0.1395 -0.1318 -0.1216 -0.1167 -0.1261 -0.1135 -0.1014 -0.1069 -0.0935 -0.0927	-0.1419 -0.1296 -0.1282 -0.1261 -0.1167 -0.1075 -0.1043 -0.1064 -0.0991 -0.0955 -0.0875 -0.0872	-0.1787 -0.1476 -0.1429 -0.1347 -0.1266 -0.1140 -0.1114 -0.1188 -0.1042 -0.0992 -0.0988 -0.0935 -0.0880	-0.1693 -0.1569 -0.1404 -0.1432 -0.1286 -0.1192 -0.1181 -0.1090 -0.0975 -0.0942 -0.0879 -0.0899	-0.1968 -0.1704 -0.1489 -0.1456 -0.1398 -0.1318 -0.1294 -0.1279 -0.1201 -0.1051 -0.1079 -0.0954	-0.1301 -0.1258 -0.1109 -0.1151 -0.1184 -0.1109 -0.1120 -0.1060 -0.1027 -0.0948 -0.0909 -0.0850 -0.0870	-0.0523 -0.0567 -0.0491 -0.0472 -0.0828 -0.0725 -0.0722 -0.0784 -0.0717 -0.0685 -0.0717 -0.0661 -0.0663

Table V. Continued

Run	CP152	CP153	CP154	CP155	CP156	CP157	CP158	CP159	CP161	CP162	CP163	CP164	CP165	CP166	CP167	CP168
74.	0.0662	0.1277	0.1865	-0.1689	-0.1517	-0.1823	-0.1243	0.1281	0.1555	0.1847	0.1704	0.1969	0.1987	0.2590	0.2973	0.3792
273.	0.0372	0.1260		-0.1431		-0.1517				0.2062	0.2154	0.2289	0.2524	0.2901	0.3464	0.4100
39.	0.0522	0.1201		-0.1341		-0.1434		0.1271	0.1762	0.2055	0.1953	0.2206	0.2354	0.2903	0.3307	0.4067
136.	0.0434	0.1270	0.1792	-0.1256	-0.1258	-0.1357	-0.1099	0.1267	0.1972	0.2097	0.2162	0.2314	0.2555	0.2949	0.3474	0.4148
173.	-0.0143	0.0601	0.1373	-0.1253	-0.1209	-0.1273	-0.1145	0.0580	0.1723	0.2122	0.2339	0.2589	0.2826	0.3222	0.3658	0.4163
41.	-0.0113	0.0651	0.1408	-0.1080	-0.1075	-0.1171	-0.0987	0.0576	0.1775	0.2114	0.2389	0.2597	0.2878	0.3220	0.3675	0.4099
236.	-0.0149	0.0668	0.1353	-0.1057	-0.1073	-0.1141	-0.0975				0.2426	0.2639	0.2902	0.3225	0.3731	0.4153
172.	-0.0140	0.0464	0.1276	-0.1166	-0.1093	-0.1185	-0.1059	0.0469	0.1584	0.2142	0.2345	0.2694	0.2906	0.3353	0.3712	0.4196
240.	-0.0220	0.0425	0.1120	-0.1008	-0.0999	-0.1066	-0.0933	0.0357	0.1576	0.2010	0.2352	0.2603	0.2913	0.3240	0.3640	0.4023
37.	-0.0162	0.0400	0.1083	-0.0928	-0.0924	-0.0982	-0.0968		0.1532		0.2312	0.2628	0.2897	0.3263	0.3612	0.4045
272.	-0.0212	0.0272	0.1004	-0.0975	-0.0908	-0.0989	-0.0892		0.1339		0.2261	0.2664	0.2904	0.3316	0.3616	0.4001
38.	-0.0165	0.0-0			-0.0878					0.1923		0.2603		0.3263	0.3524	0.3952
140.	-0.0245				-0.0854							0.2510			0.3449	0.3779
271.	-0.0320	0.0107	0.0725	-0.0919	-0.0882	-0.0927	-0.0799	0.0059	0.1058	0.1613	0.1999	0.2401	0.2691	0.3060	0.3335	0.3632
Run	CP169	CP170	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP184
74.	0.3913	0.4514		0.4670	0.4139	0.1875						0.3302			0.4132	0.1.1.0.1
273.	0.4324	0.4763		0.4915	0.4485	0.1990	0.2038			0.2552	0.2979	0.3690	0.4165	0.4394	0.4538	0.4747
39.	0.4302		0.4804	0.4730	0.4308	0.1999	0.1995	0.2092	0	0.2607	0.2890	0.3477			0.4380	0.4621
136.	0.4463	0.4789	0.4913	0.4945	0.4520	0.1995	0.2061		0.2291	0.2579	0.2998	0.3642	0.4171	0.4411	0.4601	0.4805
173.	0.4331	0.4636	0.4724	0.4735	0.4500	0.1862	0.2142	0.2414	0.2602	0.2929	0.3288	0.3839		0.4368	0.4514	0.4717
41.	0.4270	0.4601	0.4640	0.4699	0.4464	0.1821	0.2153	0.2414	0.2676	0.2898	0.3310	0.3844	0.4136	0.4277	0.4441	0.4640
236.	0.4363	0.4667	0.4701	0.4777	0.4517	0.1823	0.2148	0.2407	0.2687	0.2906	0.3318	0.3852	0.4187	0.4318	0.4493	0.4681
172.	0.4336	0.10	0.4710	0.4695	0.4506	0.1812	0.2148	0.2476	0.2660	0.3082	0.3388	0.3897	0.4177	0.4398	0.4507	0.4727
240.	0.4171	0.4453	0.4504	0.4525	0.4382	0.1625	0.2044	0.2399	0.2703	0.2964	0.3329		0.4085	0.4242	0.4404	0.4566
37.	0.4207	0.4398	0.4549	0.4402	0.4344	0.1656	0.2058	0.2392	0.2637	0.3005	0.3336	0.3757	0.4043	0.4208	0.4345 $0.4307$	$0.4508 \\ 0.4497$
272.	0.4102	0.4368	0.4423	0.4372	0.4313	0.1568	0.2000	0.2420	0.2665	0.3077	0.3358	0.0.0	0.4016 $0.3897$	0.4215 $0.4132$	0.4307 $0.4240$	0.4497
38.	0.4083	0.4229	0.4386	0.4204	0.4198	0.1540	0.1944	0.2350	0.2543	0.3052	0.3300	0.3647	0.3897 $0.3826$	0.4132 $0.3981$	0.4240 $0.4117$	0.4400 $0.4250$
140.	0.3916	0.4117	0.4199	0.4046	0.4109	0.1408	0.1856	0.2266	0.2577	0.2911	0.3227	0.3591	0.0020	0.0901	0.4117	0.4200
271.	0.3710	0.3967	0.3958	0.3911	0.3982	0.1210	0.1669	0.0140	0.0479	0.0001	0.2120	0.3515	0.2715	0 2065	0.3954	0.4101

Table V. Continued

Run	CP185	CP186	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202
74.	0.4314	0.4165	0.2278	0.3645	0.4581	0.4673	0.1259	0 1995	0.1904	0.2317	0.2334	0.2813	0.2680	0 3232	0.3230	0.3662
273.		0.4392	0.2631	0.4113	0.4844	0.5029	0.1748	0.1330	0.1304		0.2947	0.3244	0.3284	0.3672	0.3230	0.3002 $0.3958$
39.	0	0.4243	000-		0.4532		0.1621		0.2155	0.2637	0.2564	0.3122	0.3459	0.3812	0.3789	0.4137
136.	0.4797	0.4401	0.2599	0.4218		0.4983	0.1804		0.2380	0.2641		0.3122	0.3435	0.3612 $0.3740$	0.3964	0.4041
173.	0.4657	0.4433	0.2930	0.4201		0.4832	0.1961		0.2681	0.2971	0.3193			0.3923	0.4028	0.4041
41.	0.4606	0.4368	0.2927	0.4168	0.4662	0.4835	0.2044		0.2740	0.2943	1,000	0.3469	0.3576	0.3835	0.4007	0.3977
236.	0.4659	0.4393	0.2953			0.4889	0.2055				0.3268		0.3631	0.3882	0.4092	0.4088
172.	0.4637	0.4503	0.3046		0.4654		0.2000		0.2714		0.3229			0.4012	0.4051	0.4153
240.	0.4465	0.4303	0.2992	0.4086	0.4530	0.4649	0.2053			0.2973				0.3874	0.4021	0.3953
37.	0.4426	0.4254	0.2955			0.4538	0.2092	0.2545		0.3004		0.3481	0.3707	0.3921	0.3994	0.4035
272.	0.4363	0.4287	0.3065	0.4030	0.4396	0.4467		0.2651	0.2746	0.3070	0.3213	0.3521	0.3639	0.3873	0.3868	0.3978
38.	0.4248	0.4176	0.2949	0.3989	0.4219	0.4302	0.2034	0.2501	0.2595	0.3002	0.3007	0.3432	0.3744	0.3936	0.3836	0.4029
140.	0.4105	0.4029	0.2893	0.3844	0.4165	0.4195	0.2046	0.2510	0.2681	0.2914	0.3134	0.3354	0.3474	0.3690	0.3744	0.3787
271.	0.3947	0.3961	0.2863	0.3659	0.4043	0.4027	0.2008	0.2524	0.2640	0.2883	0.3046	0.3282	0.3316	0.3516	0.3567	0.3629
Run	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227	CP228	CP230	CP231	CD232
Run	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227	CP228	CP230	CP231	CP232
	CP203 0.3405	CP204 0.3548														
					0.2054	0.3873	0.3665	0.4523	0.4549	0.4822	0.5155	0.5382	0.5574	0.5905	0.5583	0.5423
74.	0.3405	0.3548	0.3363	0.2313	0.2054	0.3873 $0.4262$		$0.4523 \\ 0.4722$	$0.4549 \\ 0.5025$	$0.4822 \\ 0.5392$	0.5155 0.5478	0.5382 0.5852	$0.5574 \\ 0.5881$	0.5905	0.5583 0.5968	0.5423 0.5859
74. 273.	$0.3405 \\ 0.3921$	$0.3548 \\ 0.3956$	$0.3363 \\ 0.3965$	0.2313 0.2689	$0.2054 \\ 0.2587$	0.3873 0.4262 0.4278	0.3665 0.4222 0.4302	$0.4523 \\ 0.4722$	$0.4549 \\ 0.5025$	0.4822	0.5155 0.5478 0.5525	0.5382	0.5574	$0.5905 \\ 0.6170$	0.5583	0.5423
74. 273. 39.	0.3405 0.3921 0.3657	0.3548 0.3956 0.3649	0.3363 0.3965 0.3848	0.2313 0.2689 0.2535	0.2054 0.2587 0.2594	0.3873 0.4262 0.4278	0.3665 0.4222 0.4302 0.4347	0.4523 0.4722 0.4878	0.4549 0.5025 0.4780	0.4822 0.5392 0.5384 0.5550	0.5155 0.5478 0.5525	0.5382 0.5852 0.5611	0.5574 0.5881 0.6138	$0.5905 \\ 0.6170 \\ 0.6054$	0.5583 0.5968 0.6016	0.5423 0.5859 0.5656
74. 273. 39. 136.	0.3405 0.3921 0.3657 0.4012	0.3548 0.3956 0.3649 0.4077	0.3363 0.3965 0.3848 0.4116	0.2313 0.2689 0.2535 0.2646	0.2054 0.2587 0.2594 0.2666	0.3873 0.4262 0.4278 0.4310 0.4407	0.3665 0.4222 0.4302 0.4347	0.4523 0.4722 0.4878 0.4864	0.4549 0.5025 0.4780 0.5006	0.4822 0.5392 0.5384 0.5550	0.5155 0.5478 0.5525 0.5578	0.5382 0.5852 0.5611 0.5871	0.5574 0.5881 0.6138 0.6020	0.5905 0.6170 0.6054 0.6254	0.5583 0.5968 0.6016 0.6147	0.5423 0.5859 0.5656 0.5982
74. 273. 39. 136. 173.	0.3405 0.3921 0.3657 0.4012 0.3989	0.3548 0.3956 0.3649 0.4077 0.4049	0.3363 0.3965 0.3848 0.4116 0.4278	0.2313 0.2689 0.2535 0.2646 0.2969	0.2054 0.2587 0.2594 0.2666 0.2977	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358	0.3665 0.4222 0.4302 0.4347 0.4357	0.4523 0.4722 0.4878 0.4864 0.4691	0.4549 0.5025 0.4780 0.5006 0.4929	0.4822 0.5392 0.5384 0.5550 0.5570	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550	0.5382 0.5852 0.5611 0.5871 0.5833	0.5574 0.5881 0.6138 0.6020 0.5886	0.5905 0.6170 0.6054 0.6254 0.6015	0.5583 0.5968 0.6016 0.6147 0.5884	0.5423 0.5859 0.5656 0.5982 0.5740
74. 273. 39. 136. 173. 41.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322	0.4523 0.4722 0.4878 0.4864 0.4691 0.4528 0.4689	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829	0.5574 0.5881 0.6138 0.6020 0.5886 0.5828	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830	0.5423 0.5859 0.5656 0.5982 0.5740 0.5668
74. 273. 39. 136. 173. 41. 236. 172. 240.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015 0.4079 0.4015 0.3970	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160 0.4254 0.4329 0.4166	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4394 0.4270	0.4523 0.4722 0.4878 0.4864 0.4691 0.4528 0.4689 0.4692 0.4482	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973 0.4909	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549 0.5529	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770	0.5574 0.5881 0.6138 0.6020 0.5886 0.5828 0.5828	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976	0.5423 0.5859 0.5656 0.5982 0.5740 0.5668 0.5802
74. 273. 39. 136. 173. 41. 236. 172. 240. 37.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015 0.4079 0.4015 0.3970 0.3919	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041 0.3906	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160 0.4254 0.4329 0.4166 0.4150	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011 0.2991	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028 0.3073	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292 0.4306	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4394 0.4270 0.4284	0.4523 0.4722 0.4878 0.4864 0.4691 0.4528 0.4689 0.4692 0.4482 0.4541	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973 0.4909 0.4776 0.4720	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549 0.5529 0.5622 0.5431 0.5524	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736 0.5419 0.5511	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770 0.5849	0.5574 0.5881 0.6138 0.6020 0.5886 0.5828 0.5828 0.6002	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172 0.6034	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976 0.5917	0.5423 0.5859 0.5656 0.5982 0.5740 0.5668 0.5802 0.5751
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015 0.4079 0.4015 0.3970 0.3919 0.3891	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041 0.3906 0.3995	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160 0.4254 0.4329 0.4166 0.4150 0.4254	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011 0.2991 0.3071	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028 0.3073 0.3125	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292 0.4306 0.4248	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4394 0.4270 0.4284 0.4195	0.4523 0.4722 0.4878 0.4864 0.4691 0.4528 0.4689 0.4692 0.4482 0.4541 0.4444	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973 0.4909 0.4776 0.4720 0.4673	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549 0.5529 0.5622 0.5431 0.5524 0.5435	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736 0.5419 0.5511 0.5537	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770 0.5849 0.5665 0.5652 0.5652	0.5574 0.5881 0.6138 0.6020 0.5886 0.5828 0.5828 0.6002 0.5591	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172 0.6034 0.5727	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976 0.5917 0.5615	$\begin{array}{c} 0.5423 \\ 0.5859 \\ 0.5656 \\ 0.5982 \\ 0.5740 \\ 0.5668 \\ 0.5802 \\ 0.5751 \\ 0.5518 \\ 0.5495 \end{array}$
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015 0.4079 0.4015 0.3970 0.3919 0.3891 0.3775	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041 0.3906 0.3995 0.3778	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160 0.4254 0.4329 0.4166 0.4150 0.4254 0.4152	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011 0.2991 0.3071 0.2964	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028 0.3073 0.3125 0.3122	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292 0.4306 0.4248 0.4201	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4394 0.4270 0.4284 0.4195 0.4179	$\begin{array}{c} 0.4523 \\ 0.4722 \\ 0.4878 \\ 0.4864 \\ 0.4691 \\ 0.4528 \\ 0.4689 \\ 0.4692 \\ 0.4482 \\ 0.4541 \\ 0.4444 \\ 0.4476 \end{array}$	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973 0.4909 0.4776 0.4720 0.4673 0.4498	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549 0.5529 0.5622 0.5431 0.5524 0.5435 0.5418	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736 0.5419 0.5511 0.5537 0.5456	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770 0.5849 0.5665 0.5652 0.5628 0.5437	$\begin{array}{c} 0.5574 \\ 0.5881 \\ 0.6138 \\ 0.6020 \\ 0.5886 \\ 0.5828 \\ 0.5828 \\ 0.6002 \\ 0.5591 \\ 0.5772 \\ 0.5730 \\ 0.5702 \end{array}$	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172 0.6034 0.5727 0.5782	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976 0.5917 0.5615 0.5692	$\begin{array}{c} 0.5423 \\ 0.5859 \\ 0.5656 \\ 0.5982 \\ 0.5740 \\ 0.5668 \\ 0.5802 \\ 0.5751 \\ 0.5518 \\ 0.5495 \end{array}$
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38. 140.	$\begin{array}{c} 0.3405 \\ 0.3921 \\ 0.3657 \\ 0.4012 \\ 0.3989 \\ 0.4015 \\ 0.4079 \\ 0.4015 \\ 0.3970 \\ 0.3919 \\ 0.3891 \\ 0.3775 \\ 0.3774 \end{array}$	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041 0.3906 0.3995 0.3778 0.3768	$\begin{array}{c} 0.3363 \\ 0.3965 \\ 0.3848 \\ 0.4116 \\ 0.4278 \\ 0.4160 \\ 0.4254 \\ 0.4329 \\ 0.4166 \\ 0.4150 \\ 0.4254 \\ 0.4152 \\ 0.3964 \end{array}$	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011 0.2991 0.3071 0.2964 0.2930	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028 0.3073 0.3125 0.3122 0.2995	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292 0.4306 0.4248 0.4201 0.4027	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4270 0.4284 0.4195 0.4179 0.3979	$\begin{array}{c} 0.4523 \\ 0.4722 \\ 0.4878 \\ 0.4864 \\ 0.4691 \\ 0.4528 \\ 0.4692 \\ 0.4482 \\ 0.4541 \\ 0.4444 \\ 0.4476 \\ 0.4182 \end{array}$	$\begin{array}{c} 0.4549 \\ 0.5025 \\ 0.4780 \\ 0.5006 \\ 0.4929 \\ 0.4909 \\ 0.4973 \\ 0.4909 \\ 0.4776 \\ 0.4720 \\ 0.4673 \\ 0.4498 \\ 0.4451 \end{array}$	$\begin{array}{c} 0.4822 \\ 0.5392 \\ 0.5384 \\ 0.5550 \\ 0.5570 \\ 0.5549 \\ 0.5529 \\ 0.5622 \\ 0.5431 \\ 0.5524 \\ 0.5435 \\ 0.5418 \\ 0.5340 \end{array}$	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736 0.5419 0.5511 0.5537 0.5456 0.5299	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770 0.5849 0.5665 0.5652 0.5628 0.5437 0.5458	$\begin{array}{c} 0.5574 \\ 0.5881 \\ 0.6138 \\ 0.6020 \\ 0.5886 \\ 0.5828 \\ 0.5828 \\ 0.6002 \\ 0.5591 \\ 0.5772 \\ 0.5730 \\ 0.5702 \\ 0.5460 \end{array}$	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172 0.6034 0.5727 0.5782 0.5804 0.5623 0.5450	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976 0.5917 0.5615 0.5692 0.5706 0.5681 0.5348	$\begin{array}{c} 0.5423 \\ 0.5859 \\ 0.5656 \\ 0.5982 \\ 0.5740 \\ 0.5668 \\ 0.5802 \\ 0.5751 \\ 0.5518 \\ 0.5495 \\ 0.5594 \\ 0.5447 \\ 0.5190 \end{array}$
74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272. 38.	0.3405 0.3921 0.3657 0.4012 0.3989 0.4015 0.4079 0.4015 0.3970 0.3919 0.3891 0.3775	0.3548 0.3956 0.3649 0.4077 0.4049 0.3981 0.4144 0.4097 0.4041 0.3906 0.3995 0.3778	0.3363 0.3965 0.3848 0.4116 0.4278 0.4160 0.4254 0.4329 0.4166 0.4150 0.4254 0.4152	0.2313 0.2689 0.2535 0.2646 0.2969 0.2977 0.2980 0.3063 0.3011 0.2991 0.3071 0.2964	0.2054 0.2587 0.2594 0.2666 0.2977 0.2984 0.3007 0.3100 0.3028 0.3073 0.3125 0.3122	0.3873 0.4262 0.4278 0.4310 0.4407 0.4358 0.4382 0.4447 0.4292 0.4306 0.4248 0.4201	0.3665 0.4222 0.4302 0.4347 0.4357 0.4322 0.4349 0.4394 0.4270 0.4284 0.4195 0.4179	$\begin{array}{c} 0.4523 \\ 0.4722 \\ 0.4878 \\ 0.4864 \\ 0.4691 \\ 0.4528 \\ 0.4689 \\ 0.4692 \\ 0.4482 \\ 0.4541 \\ 0.4444 \\ 0.4476 \end{array}$	0.4549 0.5025 0.4780 0.5006 0.4929 0.4909 0.4973 0.4909 0.4776 0.4720 0.4673 0.4498	0.4822 0.5392 0.5384 0.5550 0.5570 0.5549 0.5529 0.5622 0.5431 0.5524 0.5435 0.5418	0.5155 0.5478 0.5525 0.5578 0.5602 0.5550 0.5470 0.5736 0.5419 0.5511 0.5537 0.5456	0.5382 0.5852 0.5611 0.5871 0.5833 0.5829 0.5770 0.5849 0.5665 0.5652 0.5628 0.5437	$\begin{array}{c} 0.5574 \\ 0.5881 \\ 0.6138 \\ 0.6020 \\ 0.5886 \\ 0.5828 \\ 0.5828 \\ 0.6002 \\ 0.5591 \\ 0.5772 \\ 0.5730 \\ 0.5702 \end{array}$	0.5905 0.6170 0.6054 0.6254 0.6015 0.6000 0.6172 0.6034 0.5727 0.5782 0.5804 0.5623	0.5583 0.5968 0.6016 0.6147 0.5884 0.5830 0.5976 0.5917 0.5615 0.5692 0.5706 0.5681	$\begin{array}{c} 0.5423 \\ 0.5859 \\ 0.5656 \\ 0.5982 \\ 0.5740 \\ 0.5668 \\ 0.5802 \\ 0.5751 \\ 0.5518 \\ 0.5495 \\ 0.5594 \\ 0.5447 \end{array}$

Table V. Continued

Run	CP233	CP245	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263	CP264	CP265	CP266	CP267
74.	0.4926	0.0834	0.1918	0.3225			-0.4826					0.0413	0.0573	0.0347	0.0632	0.0268
273.	0.5570	0.1219	0.2239	0.3726			-0.5065					0.0816	0.0906	0.0846	0.1000	0.0773
39.	0.5465	0.1005	0.2176	0.3608			-0.5078				-0.1136	0.0721	0.0848	0.0809	0.0899	0.0803
136.	0.5794	0.1251	0.2274	0.3778			-0.5057					0.0884	0.0939	0.0936	0.1007	0.0868
173.	0.5603	0.1356	0.2491	0.3897		-0.6992	-0.5216		-0.2279		-0.1209	0.1088	0.1218	0.1232	0.1346	0.1182
41.	0.5562	0.1431	0.2511	0.3867			-0.5144		-0.2256			0.1158	0.1271	0.1315	0.1393	0.1215
236.	0.5657	0.1460	0.2540	0.3917			-0.5200					0.1181	0.1275	0.1296	0.1396	0.1228
172.	0.5649	0.1374	0.2610	0.3956			-0.4970					0.1211	0.1387	0.1406	0.1535	0.1352
240.	0.5438	0.1468	0.2546	0.3812			-0.4894					0.1234	0.1368	0.1425	0.1508	0.1328
37.	0.5473	0.1419	0.2563	0.3836			-0.4767					0.1239	0.1374	0.1441	0.1507	0.1397
272.	0.5508	0.1430	0.2619	0.3791			-0.4171						0.1551	0.1590	0.1720	0.1541
38.	0.5441	0.1328	0.2548	0.3739			-0.4444					0.1292	0.1476	0.1540	0.1611	0.1538
140.	0.5205	0.1438	0.2515	0.3605		0.000	-0.4329	0		0.2020	0.00	0.200	0.1460	0.1541	0.1621	0.1479
271.	0.5101	0.1374	0.2484	0.3470	0.3605	-0.5955	-0.3657	-0.2449	-0.1551	-0.1069	-0.0589	0.1382	0.1597	0.1674	0.1802	0.1614
			~	-	CIP	~~~		CD	O'D	~~~		~~~		~~~	on	O'Dooo
Run	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278	CP279	CP280	CP281	CP282	CP283
71	0.0150	0.0494	0.1165	0.1019	0.1616	0.0210	0.1650	0.4271	0.5208	0.5650	0.5895	0.5675	0.6137	0.5698	0.5499	0.4637
74. 273.		-0.0484			-0.1616		-0.1039 $-0.1925$	0.4271 $0.4772$	0.5208 $0.5471$	0.6186	0.6209	0.6139	0.6157 $0.6460$	0.5098 $0.6282$	0.5499 $0.6031$	0.4037 $0.5184$
275. 39.		-0.0089					-0.1925 $-0.1795$	0.4772 $0.4780$	0.5471 $0.5695$	0.5180 $0.5887$	0.6344	0.6139 $0.6422$	0.6279	0.6252	0.5974	$0.5184 \\ 0.5088$
39. 136.	0.0598			-0.1940		0.1144 $0.0801$	-0.1793	0.4780 $0.4892$	0.5595 $0.5570$	0.5007 $0.6174$	0.6344 $0.6332$	0.6342	0.6279 $0.6392$	0.6238	0.6974 $0.6065$	0.5088 $0.5181$
173.	0.0398			-0.1940		0.0801 $0.1053$	-0.1347	0.4092 $0.5119$	0.5768	0.6151	0.6332 $0.6121$	0.6026	0.6392 $0.6191$	0.6253	0.6131	0.5364
41.	0.0893 $0.0871$	0.0107		-0.2389		0.1053 $0.0904$	-0.2347 $-0.2281$	0.5119 $0.5020$	0.5753	0.6098	0.6021	0.6020	0.6267	0.6255	0.5131	0.5304 $0.5137$
236.	0.0871	0.0209 $0.0228$		-0.2401		0.0904 $0.1010$	-0.2298	0.5020 $0.5034$	0.5565	0.6053	0.6107	0.6003	0.6287	0.6177	0.5925	0.5137 $0.5204$
172.	0.1103			-0.2401		0.1010	-0.2284	0.5034 $0.5275$	0.5966	0.6201	0.6161	0.6006	0.6064	0.6074	0.6016	0.5249
240.	0.1103			-0.2428		0.1231	-0.2326	0.3273 $0.4953$	0.5498	0.5933	0.5821	0.5660	0.5846	0.5779	0.5584	0.5249 $0.4923$
37.	0.0302		2000	-0.2228			-0.2320	0.5039	0.5436 $0.5637$	0.5928	0.5971	0.5902	0.5882	0.5994	0.5735	0.5063
OI.					-0.1946		-0.2133	0.5069	0.5736	0.5920	0.5797	0.5628	0.5885	0.6034		0.5259
272	0.1285	0.0341	-11.111/711	-11.7.1110												
272. 38	0.1285 $0.1340$										0.5782					
38.	0.1340	0.0532	-0.0711	-0.2207	-0.2272	0.1917	-0.2121	0.5052	0.5776	0.5692	0.5782 $0.5552$	0.5743 0.5396	0.5528 0.5486	0.5774 $0.5595$		0.5019 $0.4826$
		$0.0532 \\ 0.0488$	-0.0711 -0.0874		-0.2272 -0.2102	$0.1917 \\ 0.1391$					0.5782 $0.5552$ $0.5240$	0.5743	$0.5528 \\ 0.5486$	0.5774	$0.5706 \\ 0.5474$	0.5019

Table V. Concluded

74. 0.5336 273. 0.5415 39. 0.5539 136. 0.5570 173. 0.5284 41. 0.5214 236. 0.5192 172. 0.5334 240. 0.4940 37. 0.5140 272. 0.5099 38. 0.4948 140. 0.4686 271. 0.4479	Run	CP284
140. 0.4686	74. 273. 39. 136. 173. 41. 236. 172. 240. 37. 272.	0.5336 0.5415 0.5539 0.5570 0.5284 0.5214 0.5192 0.5334 0.4940 0.5140 0.5099
	140.	0.4686

Table VI. Pressure Coefficients for l/h=4.4 Cavity With Front Blocks

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
61.	0.30	1.0	1130.4	1201.4	69.5	110.8	0.8143	-0.2152	-0.2937	-0.1863	-0.2374	-0.1675	-0.2018	-0.1026	-0.0961	-0.0651
256.	0.60	1.5	756.5	963.8	189.8	96.1			-0.2974	-0.2145	-0.2134	-0.1702	-0.1410	-0.0891	-0.0758	-0.0586
220.	0.60	1.6	761.2	972.7	193.3	80.4	0.9355	-0.2666	-0.2995			-0.1606		-0.0654		-0.0553
47.	0.60	3.4	1636.5	2085.6	410.9	80.6	0.9742	-0.2944	-0.2924						-0.0654	
57.	0.80	1.6	574.7	877.7	258.7	109.7	1.1003	-0.2852				-0.1955		0.000		-0.0560
52.	0.80	3.3	1219.4	1849.8	539.6	116.2	1.1292	-0.3254	-0.3634	-0.2593		-0.1906		0.000	-0.0649	-0.0483
48.	0.80	3.9	1380.8	2095.8	611.9	99.0	1.1191	-0.3489	0.000	-0.2535	-0.2339		000	-0.0877		-0.0494
258.	0.85	1.6	547.0	877.4	276.7	118.8		-0.2789	-0.4134			-0.2044			-0.0712	-0.0486
54.	0.85	3.3	1118.0	1793.9	566.0	119.1			-0.4347	-0.2840						-0.0432
49.	0.85	3.9	1300.8	2083.1	655.6	113.6		-0.3304						-0.0794		-0.0443
59.	0.91	1.7	523.6	895.7	303.8	120.0		-0.1986				-0.2519				-0.0321 -0.0336
120.	0.90	2.0	575.3	976.2	328.4	90.5		-0.2272							-0.0545	-0.0350
53.	0.90	3.2	997.7	1686.3	564.9	108.9		-0.2177			-0.3893		-0.1386		-0.0441 $-0.1405$	-0.0252
60.	0.95	1.7	511.9	915.2	323.6	123.1	1.2361	-0.1028	-0.3360	-0.3333	-0.3733	-0.3676	-0.3741	-0.2048	-0.1405	-0.0404
Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
61	-0.1098	-0.0659	-0.0960	-0.0329	-0.0371	-0.0609	-0.0889	-0.0148	-0.0690	-0.0511	-0.0207	-0.0577	0.0029	-0.0376	-0.0169	0.0051
256.	-0.0815	-0.0569	-0.0487	-0.0261	-0.0149	-0.0473		-0.0209	-0.0274		-0.0070	-0.0217	-0.0116	-0.0147	-0.0221	0.0022
220.	-0.0830	-0.0625	-0.0307	-0.0244	-0.0263	-0.0530	-0.0435	-0.0183	-0.0272	0.0064	-0.0357	-0.0133	0.0009	0.0038	-0.0049	-0.0148
47.	-0.0701	-0.0552	-0.0288				-0.0291		-0.0192	-0.0132	-0.0078	-0.0049	-0.0093	0.0027	-0.0216	-0.0043
57.	-0.0738	-0.0523	-0.0378	-0.0197	-0.0091	-0.0410	-0.0364	-0.0178	-0.0232	-0.0179	0.0011	-0.0123	-0.0025	-0.0028	-0.0103	0.0012
52.	-0.0648	-0.0457	-0.0223	-0.0136	-0.0035	-0.0335	-0.0254	-0.0153	-0.0156	-0.0073	0.0004	-0.0020	-0.0018	0.0030	-0.0141	0.0037
48.	-0.0601	-0.0444	-0.0242	-0.0146			-0.0197				0.0131	0.0009	-0.0047	0.0027	-0.0182	0.0123
258.	-0.0695	-0.0482	-0.0270	-0.0106	-0.0080	-0.0361	-0.0329	-0.0119	-0.0182	-0.0015	-0.0036	-0.0042	0.0086	0.0080	0.0007	0.0099
54.	-0.0583	-0.0415	-0.0155	-0.0066	-0.0002		-0.0215			0.0018	0.0035	0.0060	0.0079	0.0141		0.0147
49.	-0.0583	-0.0413	-0.0156	-0.0081	0.0009	0.0	-0.0203		-0.0109	-0.0012	0.0053	0.0049	0.0032	0.0114		0.0110
59.	-0.0527	-0.0334	-0.0142	-0.0022	-0.0008				-0.0161	0.0001	-0.0004	-0.0024	0.0091	0.0089	0.0011	0.0124
120.	-0.0530	-0.0371	-0.0038	-0.0048	-0.0039		-0.0256		-0.0145	0.0148	-0.0131	0.0043	0.0111	0.0161	0.0041	0.0060
53.	-0.0440	-0.0281	0.0017	0.0058	0.0068	-0.0226	-0.0157		-0.0071	0.0136	0.0036	0.0131	0.0149	0.0238	0.0039	0.0175
60.	-0.0208	0.0051	0.0230	0.0333	0.0256	-0.0136	-0.0160	-0.0019	-0.0118	0.0064	0.0063	0.0039	0.0144	0.0149	0.0048	0.0176

Table VI. Continued

Run	CP38	CP39	CP40	CP41	CP42	CP43	CP47	CP54	CP67	CP68	CP69	CP70	CP71	CP72	CP107	CP108
61.		-0.0214				-0.1063	0.0523		-0.0062				-0.0019	0.000	-0.0079	0.0272
256.		-0.0177		0.0013		-0.0428	0.0265		-0.0361		-0.0087			0.0=00		-0.0223
220.		-0.0016				-0.0150	0.0099		-0.0263		0.0077			-0.0290		-0.0352
47.		-0.0120		-0.0111	-0.0008	-0.0256	0.0104			-0.0507	0.0076			-0.0332	-0.0243	-0.0311
57.		-0.0127			0.0023	-0.0270	0.0167		-0.0308	-0.0447	-0.0005			-0.0265		-0.0272
52. 48.		-0.0109		-0.0012	0.0019	-0.0203	0.0098		-0.0314		0.0012				-0.0254	0.0-0
48. 258.		-0.0049 -0.0008	-0.0123	0.0029	0.0011	-0.0257	0.0257		-0.0229		0.0021				-0.0224	
250. 54.	0.0140	0.0008	-0.0027	0.0040 $0.0083$		-0.0087 -0.0017	0.0259 $0.0261$		-0.0217		0.0144				-0.0180	
49.	0.0134		-0.0011	0.0085		-0.0017	0.0261 $0.0165$		-0.0176 -0.0207		0.0188				-0.0119	
59.	0.0054	0.0010	0.0020	0.0058		-0.0104	0.0163 $0.0249$		-0.0207		0.0092 $0.0139$				-0.0146 -0.0154	0.0-0-
120.	0.0133	0.0001 $0.0047$		0.0038	0.0100 $0.0174$	0.0003	0.0249 $0.0222$		-0.0190		0.0139 $0.0200$				-0.0154 $-0.0164$	0.000
53.	0.0130	0.0047	0.0012	0.0010	0.0174 $0.0220$	0.0014 $0.0038$	0.0222 $0.0253$		-0.0173		0.0200 $0.0220$				-0.0164 $-0.0068$	
60.	0.0251	0.0043	0.0036	0.0067		-0.0052	0.0233		-0.0038		0.0220				-0.0008	0.0-0-0
00.	0.0201	0.0040	0.0100	0.0001	0.0210	-0.0002	0.0012	0.0020	-0.0102	-0.0000	0.0200	0.0230	-0.0090	-0.0025	-0.0137	-0.0211
Run	CP109	CP110	CP111	CD119	CD112	CD114	CD115	CD117	CD110	CD101	CD100	CD104	CD105	CD106	CD100	CD100
run	CF 109	CF 110	Criii	CF112	CP113	CF 114	CF 113	CFIII	CP118	CP121	CP123	CP124	CP125	CP120	CP129	CP130
61.	0.0061	0.0003	-0.0187	-0.0405	-0.1330	-0.1341	-0.2278	-0.0149	0.0122	-0.2124	-0.0429	0.0049	-0.0289	0.0159	-0.0295	0.0447
61. 256.	0.0061				-0.1330 -0.0538					-0.2124 -0.0744			-0.0289 -0.0351	0.0200	-0.0295 -0.0137	0.0447
	-0.0369	-0.0671	-0.0473	-0.0494	-0.0538	-0.0467	-0.0639	-0.0355	-0.0350	-0.0744	-0.0588	-0.0267	-0.0351	-0.0108	-0.0137	0.0074
256.	-0.0369 -0.0564	-0.0671 -0.0254	-0.0473 -0.0529	-0.0494 -0.0414	-0.0538 -0.0550	-0.0467 -0.0408	-0.0639 -0.0515	-0.0355 $-0.0274$	-0.0350 -0.0267	-0.0744 -0.0145	-0.0588 -0.0314	-0.0267 -0.0355	-0.0351 -0.0505	-0.0108	-0.0137 0.0194	0.0074 $0.0196$
256. 220.	-0.0369 -0.0564 -0.0446	-0.0671 -0.0254 -0.0491	-0.0473 -0.0529 -0.0502	-0.0494 -0.0414 -0.0473	-0.0538 -0.0550 -0.0525	-0.0467 -0.0408 -0.0524	-0.0639 -0.0515 -0.0583	-0.0355 -0.0274 -0.0283	-0.0350 -0.0267 -0.0354	-0.0744 -0.0145 -0.0384	-0.0588 -0.0314 -0.0419	-0.0267 -0.0355 -0.0338	-0.0351 -0.0505 -0.0390	-0.0108 -0.0456 -0.0329	-0.0137	0.0074 0.0196 0.0086
256. 220. 47.	-0.0369 -0.0564 -0.0446 -0.0398	-0.0671 -0.0254 -0.0491 -0.0431	-0.0473 -0.0529 -0.0502 -0.0432	-0.0494 -0.0414 -0.0473 -0.0376	-0.0538 -0.0550 -0.0525 -0.0455	-0.0467 -0.0408 -0.0524 -0.0320	-0.0639 -0.0515 -0.0583 -0.0421	-0.0355 -0.0274 -0.0283 -0.0299	-0.0350 -0.0267 -0.0354 -0.0281	-0.0744 -0.0145 -0.0384 -0.0322	-0.0588 -0.0314 -0.0419 -0.0385	-0.0267 -0.0355 -0.0338 -0.0210	-0.0351 -0.0505 -0.0390 -0.0342	-0.0108 -0.0456 -0.0329 -0.0208	-0.0137 0.0194 0.0130	0.0074 $0.0196$
256. 220. 47.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0389	-0.0671 -0.0254 -0.0491 -0.0431 -0.0444	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \end{array}$	-0.0639 -0.0515 -0.0583 -0.0421 -0.0375	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269	-0.0350 -0.0267 -0.0354 -0.0281 -0.0292	-0.0744 -0.0145 -0.0384 -0.0322 -0.0224	-0.0588 -0.0314 -0.0419 -0.0385 -0.0373	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259	-0.0137 0.0194 0.0130 0.0006	0.0074 0.0196 0.0086 0.0105
256. 220. 47. 57. 52.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0389 -0.0366	-0.0671 -0.0254 -0.0491 -0.0431 -0.0444 -0.0531	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415 -0.0326	-0.0538 -0.0550 -0.0525 -0.0455	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \end{array}$	-0.0639 -0.0515 -0.0583 -0.0421 -0.0375 -0.0177	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0276	-0.0350 -0.0267 -0.0354 -0.0281 -0.0292 -0.0346	-0.0744 -0.0145 -0.0384 -0.0322 -0.0224 -0.0292	-0.0588 -0.0314 -0.0419 -0.0385 -0.0373 -0.0427	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340 -0.0277	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259	-0.0137 0.0194 0.0130 0.0006 0.0057	0.0074 0.0196 0.0086 0.0105 0.0100
256. 220. 47. 57. 52. 48.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0389 -0.0366 -0.0343	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415 -0.0326 -0.0262	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223	-0.0467 -0.0408 -0.0524 -0.0320 -0.0327 -0.0144 -0.0123	-0.0639 -0.0515 -0.0583 -0.0421 -0.0375 -0.0177 -0.0246	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0276 -0.0199	-0.0350 -0.0267 -0.0354 -0.0281 -0.0292 -0.0346 -0.0192	-0.0744 -0.0145 -0.0384 -0.0322 -0.0224 -0.0292 -0.0108	-0.0588 -0.0314 -0.0419 -0.0385 -0.0373 -0.0427 -0.0301	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340 -0.0277	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048
256. 220. 47. 57. 52. 48. 258.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0366 -0.0343 -0.0318 -0.0421	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358 -0.0360 -0.0439	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363 -0.0348 -0.0372	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415 -0.0326 -0.0262 -0.0243 -0.0262	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223 -0.0291 -0.0235 -0.0246	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \\ -0.0123 \\ -0.0137 \\ -0.0156 \end{array}$	$\begin{array}{c} -0.0639 \\ -0.0515 \\ -0.0583 \\ -0.0421 \\ -0.0375 \\ -0.0177 \\ -0.0246 \\ -0.0195 \\ -0.0231 \end{array}$	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0276 -0.0199 -0.0160 -0.0197	-0.0350 -0.0267 -0.0354 -0.0281 -0.0292 -0.0346 -0.0192 -0.0192 -0.0279	$\begin{array}{c} -0.0744 \\ -0.0145 \\ -0.0384 \\ -0.0322 \\ -0.0224 \\ -0.0292 \\ -0.0108 \\ -0.0032 \\ -0.0084 \end{array}$	-0.0588 -0.0314 -0.0419 -0.0385 -0.0373 -0.0427 -0.0301 -0.0269 -0.0324	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145 -0.0138 -0.0222	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340 -0.0277 -0.0234 -0.0163	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029 0.0070	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048 0.0194
256. 220. 47. 57. 52. 48. 258. 54. 49. 59.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0366 -0.0343 -0.0318 -0.0421 -0.0354	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358 -0.0360 -0.0439 -0.0385	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363 -0.0348 -0.0372 -0.0340	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415 -0.0262 -0.0243 -0.0262 -0.0196	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223 -0.0291 -0.0235 -0.0246 -0.0218	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \\ -0.0123 \\ -0.0137 \\ -0.0156 \\ -0.0070 \end{array}$	$\begin{array}{c} -0.0639 \\ -0.0515 \\ -0.0583 \\ -0.0421 \\ -0.0375 \\ -0.0177 \\ -0.0246 \\ -0.0195 \\ -0.0231 \\ -0.0178 \end{array}$	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0199 -0.0160 -0.0197 -0.0183	$\begin{array}{c} -0.0350 \\ -0.0267 \\ -0.0354 \\ -0.0281 \\ -0.0292 \\ -0.0346 \\ -0.0192 \\ -0.0192 \\ -0.0279 \\ -0.0195 \end{array}$	$\begin{array}{c} -0.0744 \\ -0.0145 \\ -0.0384 \\ -0.0322 \\ -0.0224 \\ -0.0292 \\ -0.0108 \\ -0.0032 \\ -0.0084 \\ -0.0072 \end{array}$	-0.0588 -0.0314 -0.0419 -0.0385 -0.0373 -0.0427 -0.0301 -0.0269 -0.0324 -0.0288	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145 -0.0138 -0.0222	$\begin{array}{c} -0.0351 \\ -0.0505 \\ -0.0390 \\ -0.0342 \\ -0.0340 \\ -0.0277 \\ -0.0234 \\ -0.0163 \\ -0.0260 \end{array}$	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102 -0.0078	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029 0.0070 0.0155	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048 0.0194 0.0184
256. 220. 47. 57. 52. 48. 258. 54. 49. 59. 120.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0366 -0.0343 -0.0318 -0.0421 -0.0354 -0.0426	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358 -0.0360 -0.0439 -0.0385 -0.0239	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363 -0.0348 -0.0372 -0.0340 -0.0365	$\begin{array}{c} -0.0494 \\ -0.0414 \\ -0.0473 \\ -0.0376 \\ -0.0415 \\ -0.0262 \\ -0.0243 \\ -0.0262 \\ -0.0196 \\ -0.0222 \end{array}$	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223 -0.0291 -0.0235 -0.0246 -0.0218 -0.0267	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \\ -0.0123 \\ -0.0137 \\ -0.0156 \\ -0.0070 \\ -0.0146 \end{array}$	$\begin{array}{c} -0.0639 \\ -0.0515 \\ -0.0583 \\ -0.0421 \\ -0.0375 \\ -0.0177 \\ -0.0246 \\ -0.0195 \\ -0.0231 \\ -0.0178 \\ -0.0208 \end{array}$	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0199 -0.0160 -0.0197 -0.0183 -0.0161	$\begin{array}{c} -0.0350 \\ -0.0267 \\ -0.0354 \\ -0.0281 \\ -0.0292 \\ -0.0346 \\ -0.0192 \\ -0.0192 \\ -0.0279 \\ -0.0195 \\ -0.0180 \end{array}$	$\begin{array}{c} -0.0744 \\ -0.0145 \\ -0.0384 \\ -0.0322 \\ -0.0224 \\ -0.0292 \\ -0.0108 \\ -0.0032 \\ -0.0084 \\ -0.0072 \\ 0.0126 \end{array}$	$\begin{array}{c} -0.0588 \\ -0.0314 \\ -0.0419 \\ -0.0385 \\ -0.0373 \\ -0.0427 \\ -0.0301 \\ -0.0269 \\ -0.0324 \\ -0.0288 \\ -0.0172 \end{array}$	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145 -0.0138 -0.0222 -0.0114 -0.0155	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340 -0.0277 -0.0234 -0.0163 -0.0260 -0.0192 -0.0255	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102 -0.0078 -0.0193 -0.0059 -0.0200	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029 0.0070 0.0155 0.0158	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048 0.0194 0.0184 0.0155
256. 220. 47. 57. 52. 48. 258. 54. 49. 59.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0366 -0.0343 -0.0318 -0.0421 -0.0354 -0.0426 -0.0340	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358 -0.0360 -0.0439 -0.0385 -0.0239 -0.0275	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363 -0.0348 -0.0372 -0.0340 -0.0365 -0.0313	-0.0494 -0.0414 -0.0473 -0.0376 -0.0415 -0.0262 -0.0243 -0.0262 -0.0196 -0.0222 -0.0136	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223 -0.0291 -0.0235 -0.0246 -0.0218 -0.0267 -0.0097	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \\ -0.0123 \\ -0.0137 \\ -0.0156 \\ -0.0070 \\ -0.0146 \\ 0.0032 \end{array}$	$\begin{array}{c} -0.0639 \\ -0.0515 \\ -0.0583 \\ -0.0421 \\ -0.0375 \\ -0.0177 \\ -0.0246 \\ -0.0195 \\ -0.0231 \\ -0.0178 \\ -0.0208 \end{array}$	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0199 -0.0160 -0.0197 -0.0183	$\begin{array}{c} -0.0350 \\ -0.0267 \\ -0.0354 \\ -0.0281 \\ -0.0292 \\ -0.0346 \\ -0.0192 \\ -0.0192 \\ -0.0279 \\ -0.0195 \\ -0.0180 \end{array}$	$\begin{array}{c} -0.0744 \\ -0.0145 \\ -0.0384 \\ -0.0322 \\ -0.0224 \\ -0.0292 \\ -0.0108 \\ -0.0032 \\ -0.0084 \\ -0.0072 \\ 0.0126 \end{array}$	$\begin{array}{c} -0.0588 \\ -0.0314 \\ -0.0419 \\ -0.0385 \\ -0.0373 \\ -0.0427 \\ -0.0301 \\ -0.0269 \\ -0.0324 \\ -0.0288 \\ -0.0172 \end{array}$	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145 -0.0138 -0.0222 -0.0114	-0.0351 -0.0505 -0.0390 -0.0342 -0.0340 -0.0277 -0.0234 -0.0163 -0.0260 -0.0192 -0.0255	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102 -0.0078 -0.0193 -0.0059 -0.0200	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029 0.0070 0.0155 0.0158 0.0091	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048 0.0194 0.0184 0.0155 0.0213
256. 220. 47. 57. 52. 48. 258. 54. 49. 59. 120.	-0.0369 -0.0564 -0.0446 -0.0398 -0.0366 -0.0343 -0.0318 -0.0421 -0.0354 -0.0426 -0.0340	-0.0671 -0.0254 -0.0491 -0.0431 -0.0531 -0.0358 -0.0360 -0.0439 -0.0385 -0.0239	-0.0473 -0.0529 -0.0502 -0.0432 -0.0463 -0.0366 -0.0363 -0.0348 -0.0372 -0.0340 -0.0365 -0.0313	$\begin{array}{c} -0.0494 \\ -0.0414 \\ -0.0473 \\ -0.0376 \\ -0.0415 \\ -0.0262 \\ -0.0243 \\ -0.0262 \\ -0.0196 \\ -0.0222 \end{array}$	-0.0538 -0.0550 -0.0525 -0.0455 -0.0415 -0.0223 -0.0291 -0.0235 -0.0246 -0.0218 -0.0267 -0.0097	$\begin{array}{c} -0.0467 \\ -0.0408 \\ -0.0524 \\ -0.0320 \\ -0.0327 \\ -0.0144 \\ -0.0123 \\ -0.0137 \\ -0.0156 \\ -0.0070 \\ -0.0146 \end{array}$	$\begin{array}{c} -0.0639 \\ -0.0515 \\ -0.0583 \\ -0.0421 \\ -0.0375 \\ -0.0177 \\ -0.0246 \\ -0.0195 \\ -0.0231 \\ -0.0178 \\ -0.0208 \\ -0.0051 \end{array}$	-0.0355 -0.0274 -0.0283 -0.0299 -0.0269 -0.0199 -0.0160 -0.0197 -0.0183 -0.0161	$\begin{array}{c} -0.0350 \\ -0.0267 \\ -0.0354 \\ -0.0291 \\ -0.0392 \\ -0.0346 \\ -0.0192 \\ -0.0192 \\ -0.0279 \\ -0.0195 \\ -0.0180 \\ -0.0162 \end{array}$	$\begin{array}{c} -0.0744 \\ -0.0145 \\ -0.0384 \\ -0.0322 \\ -0.0224 \\ -0.0292 \\ -0.0108 \\ -0.0032 \\ -0.0084 \\ -0.0072 \\ 0.0126 \\ 0.0118 \end{array}$	$\begin{array}{c} -0.0588 \\ -0.0314 \\ -0.0419 \\ -0.0385 \\ -0.0373 \\ -0.0427 \\ -0.0301 \\ -0.0269 \\ -0.0324 \\ -0.0288 \\ -0.0172 \\ -0.0197 \end{array}$	-0.0267 -0.0355 -0.0338 -0.0210 -0.0255 -0.0296 -0.0145 -0.0138 -0.0222 -0.0114 -0.0155	$\begin{array}{c} -0.0351 \\ -0.0505 \\ -0.0390 \\ -0.0342 \\ -0.0277 \\ -0.0234 \\ -0.0163 \\ -0.0260 \\ -0.0192 \\ -0.0255 \\ -0.0146 \end{array}$	-0.0108 -0.0456 -0.0329 -0.0208 -0.0259 -0.0151 -0.0102 -0.0078 -0.0193 -0.0059 -0.0200 -0.0072	-0.0137 0.0194 0.0130 0.0006 0.0057 0.0029 0.0070 0.0155 0.0158 0.0091 0.0257	0.0074 0.0196 0.0086 0.0105 0.0100 0.0048 0.0194 0.0184 0.0155 0.0213 0.0246

Table VI. Continued

Run	CP131	CP132	CP133	CP134	CP135	CP136	CP137	CP138	CP139	CP140	CP141	CP147	CP148	CP149	CP150	CP151
61.	-0.0072	0.0388	-0.0058	0.0584	-0.0061	-0.0017	-0.0282	-0.0057	-0.0562	-0.0215	-0.0456	-0.0084	0.0248	-0.0449	-0.0007	-0.0221
256.	-0.0099	0.0038	-0.0077		-0.0364										-0.0429	-0.0388
220.	0.0039	0.0036	-0.0116	-0.0176	-0.0260	-0.0210	-0.0364	-0.0143	-0.0286	-0.0280	-0.0455	-0.0046	-0.0047	-0.0092	-0.0104	-0.0255
47.	0.0013	-0.0012	-0.0069	-0.0091	-0.0300	-0.0369	-0.0384	-0.0374	-0.0406	-0.0393	-0.0439	-0.0047	-0.0210	-0.0326	-0.0331	-0.0355
57.	-0.0039	0.0017	-0.0121	-0.0068	-0.0338	-0.0339	-0.0396	-0.0326	-0.0415	-0.0351	-0.0416	-0.0124	-0.0203	-0.0355	-0.0279	-0.0345
52.	0.0000	0.0023	-0.0081	-0.0081	-0.0297	-0.0319	-0.0345	-0.0346	-0.0418	-0.0404	-0.0425	-0.0083	-0.0183	-0.0314	-0.0277	-0.0314
48.	-0.0023	-0.0001	-0.0050		-0.0308											-0.0254
258.	0.0039	0.0104	-0.0050	0.0021	-0.0203	-0.0186	-0.0256	-0.0188	-0.0296	-0.0229	-0.0292	-0.0033	-0.0056	-0.0207	-0.0121	-0.0198
54.	0.0093	0.0109	0.0016		-0.0159									-0.0135		-0.0139
49.	0.0073	0.0059	-0.0033		-0.0189											-0.0210
59.	0.0072	0.0132	-0.0019		-0.0179											-0.0194
120.	0.0154	0.0123			-0.0144							0.0037			-0.0053	
53.	0.0215	0.0204	0.0101		-0.0063							0.0123			-0.0024	
60.	0.0150	0.0189	0.0047	0.0075	-0.0099	-0.0082	-0.0180	-0.0114	-0.0207	-0.0129	-0.0182	0.0050	0.0037	-0.0083	-0.0047	-0.0124
D	CD150	CD150	CD154	CD157	CD150	CD150	CD161	CD169	CD162	CD164	CD165	CD166	CD167	CD160	CD160	CD170
Run	CP152	CP153	CP154	CP157	CP 158	CP159	CP101	CP 102	CP103	CP104	CP105	CP100	CP107	CP108	CF109	CP170
61	-0.0165	-0.0394	0.0032	-0.0185	0.0374	-0.0524	-0.0760	-0.0915	-0.1732	-0.1962	-0.2433	-0.2102	-0.1979	-0.1248	-0.1129	0.0183
256.	-0.0467	0.000	0.000					-0.0473						0.0199	0.0244	0.0801
220.	-0.0119		-0.0319		-0.0329								-0.0042	0.0494	0.0650	0.0883
47.	-0.0348				-0.0305							-0.0158	0.0034	0.0304	0.0471	0.0740
57.	-0.0313	-0.0371	-0.0267	-0.0150	-0.0220	-0.0388	-0.0438	-0.0332	-0.0352	-0.0238	-0.0243	-0.0036	0.0138	0.0426	0.0510	0.0816
52.	-0.0342	-0.0381	-0.0332	-0.0122	-0.0208	-0.0379	-0.0416	-0.0374	-0.0351	-0.0282	-0.0184	0.0020	0.0258	0.0532	0.0665	0.0911
48.	-0.0310	-0.0218	-0.0188	-0.0094	-0.0143	-0.0377	-0.0281	-0.0309	-0.0195	-0.0202	-0.0094	0.0000	0.0272	0.0468	0.0627	0.0902
258.	-0.0175	-0.0242	-0.0124	-0.0036	-0.0104	-0.0259	-0.0301	-0.0164	-0.0216	-0.0100	-0.0093	0.0148	0.0340	0.0672	0.0771	0.1079
54.	-0.0122	-0.0148	-0.0079	0.0034	-0.0074	-0.0144	-0.0185	-0.0125	-0.0123	-0.0080	-0.0021	0.0190	0.0432	0.0693	0.0867	0.1111
49.	-0.0198	-0.0228	-0.0161	-0.0020	-0.0175	-0.0214	-0.0246	-0.0195	-0.0225	-0.0173	-0.0114	0.0097	0.0339	0.0632	0.0818	0.1032
59.	-0.0164	-0.0198	-0.0080		-0.0091						-0.0074	0.0164	0.0370	0.0685	0.0790	0.1099
120.	-0.0067	-0.0214	-0.0163	0.0082	-0.0211	-0.0119	-0.0373	-0.0214	-0.0184	-0.0101	0.0001	0.0117	0.0322	0.0709	0.0954	0.1140
53.	-0.0058	-0.0108	-0.0050		-0.0095						0.0002	0.0248	0.0462	0.0794	0.0987	0.1179
60.	-0.0075	-0.0125	0.0008	0.0069	-0.0064	-0.0158	-0.0196	-0.0053	-0.0133	-0.0029	0.0007	0.0279	0.0501	0.0870	0.1006	0.1305

Table VI. Continued

Run	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP184	CP185	CP186
61.	0.0482	0.2192	0.2998	-0.0493	-0.1148	-0.1552	-0.2114	-0.2210	-0.2373	-0.1557	-0.1184	-0.0476	-0.0037	0.1027	0.1725	0.2999
256.	0.0836	0.1825	0.2725	-0.0409	-0.0434	-0.0405	-0.0266	-0.0365	-0.0165	0.0309	0.0514	0.0725	0.0966	0.1410	0.1917	0.2763
220.	0.1081	0.1964		-0.0252		-0.0301	-0.0457	-0.0267	-0.0085	0.0494	0.0652	0.0803	0.1094	0.1666	0.1989	0.2883
47.	0.1080	0.1696	0.2753	-0.0333	-0.0328	-0.0303	-0.0300	-0.0200	-0.0073	0.0193	0.0479	0.0713	0.0995	0.1422	0.2013	0.2825
57.	0.1017	0.1672	0.2673	-0.0295	-0.0309	-0.0224	-0.0203	-0.0038	0.0067	0.0393	0.0630	0.0873	0.1069	0.1460	0.1921	0.2778
52.	0.1139	0.1763		-0.0292			-0.0138	0.0002	0.0187	0.0511	0.0764	0.0974	0.1207	0.1586	0.2121	0.2986
48.	0.1075	0.1779		-0.0274		-0.0148	-0.0003	-0.0013	0.0209	0.0538	0.0831	0.1013	0.1251	0.1575	0.2084	0.2923
258.	0.1293	0.1938		-0.0123	-0.0134	-0.0038	-0.0009	0.0193	0.0314	0.0642	0.0887	0.1149	0.1352	0.1755	0.2212	0.3083
54.	0.1377	0.1988		-0.0105		0.0025	0.0095	0.0243	0.0410	0.0682	0.0921	0.1141	0.1384	0.1760	0.2278	0.3099
49.	0.1334	0.1938		-0.0119		-0.0042	-0.0025	0.0141	0.0307	0.0582	0.0857	0.1102	0.1355	0.1721	0.2237	0.3061
59.	0.1323	0.1960		-0.0067		0.0011	0.0026	0.0220	0.0348	0.0679	0.0940	0.1191	0.1391	0.1779	0.2225	0.3066
120.	0.1354	0.2114		-0.0098		-0.0025	-0.0064	0.0122	0.0344	0.0811	0.0990	0.1118	0.1417	0.1916	0.2297	0.3150
53.	0.1506	0.2072		-0.0010	0.0002	0.0081	0.0091	0.0315	0.0465	0.0750	0.1047	0.1312	0.1556	0.1925	0.2406	0.3250
60.	0.1574	0.2186	0.3240	0.0038	0.0030	0.0134	0.0143	0.0370	0.0508	0.0861	0.1169	0.1455	0.1686	0.2068	0.2482	0.3360
Run	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202	CP203	CP204
61.	-0.2002	-0.1410	0.0527					-0.2285				-0.2098	-0.1801	-0.1395	-0.0883	0.0045
	-0.0107	0.0268	0.1305	0.2146	-0.0634	-0.0377	-0.0388	-0.0422	-0.0216	-0.0188	-0.0423	-0.0210	0.0013	-0.0025	0.0272	0.0638
220.	-0.0206	0.0610	0.0958					-0.0301				0.0065	-0.0169	0.0150	-0.0043	0.0216
47.	-0.0211	0.0475	0.1044					-0.0485		-0.0257	-0.0197	0.0039	0.0212	0.0411	0.0420	0.0561
57.	0.0004	0.0544	0.1122					-0.0133	-0.0147	0.0037	0.0004	0.0188	0.0233	0.0405	0.0374	0.0649
52.	-0.0014	0.0703	0.1283		-0.0350		-0.0276	-0.0188	-0.0133	-0.0039	-0.0033	0.0132	0.0212	0.0291	0.0370	0.0562
48.	0.0077	0.0617	0.1236		-0.0145		0.0054	0.0065	0.0176	0.0196	0.0095	0.0155	0.0180	0.0068	0.0104	0.0343
258.	0.0202	0.0821	0.1441		-0.0238		-0.0094	0.0033	0.0016	0.0206	0.0171	0.0332	0.0342	0.0516	0.0497	0.0785
54.	0.0219	0.0913	0.1375		-0.0212		-0.0062	0.0025	0.0063	0.0206	0.0231	0.0371	0.0467	0.0590	0.0625	0.0870
49.	0.0139	0.0748	0.1273		-0.0125		-0.0038	0.0042	0.0049	0.0188	0.0207	0.0270	0.0275	0.0347	0.0300	0.0519
59.	0.0197	0.0818	0.1485				-0.0073	0.0044	0.0048	0.0238	0.0207	0.0352	0.0347	0.0481	0.0463	0.0762
120.	0.0198	0.1004	0.1323				-0.0215	0.0008	-0.0140	0.0170	0.0351	0.0509	0.0448	0.0732	0.0510	0.0752
53.	0.0266	0.0985	0.1426	0.2416	0.0012	0.0079	0.0067	0.0213	0.0154	0.0369	0.0462	0.0533	0.0493	0.0591	0.0462	0.0710
60.	0.0308	0.0984	0.1561	0.2572	-0.0005	0.0157	0.0096	0.0239	0.0193	0.0365	0.0333	0.0439	0.0346	0.0398	0.0254	0.0615

Table VI. Continued

Run	CP205	CP206	CP207	CP208	CP209	CP210	CP211	CP212	CP213	CP214	CP215	CP216	CP217	CP218	CP219	CP220
61.	0.0546	-0.2245	-0.2477	-0.2163	-0.2321	-0.0925	-0.0300	-0.2147	-0.2855	-0.2456	-0.2498	-0.1898	-0.2315	-0.1968	-0.2039	-0.0710
256.	0.1336	-0.0166	-0.0123	0.0032	0.0002	0.0493	0.1086	-0.0142	-0.0380	-0.0348	-0.0263	0.0039	-0.0072	-0.0003	0.0035	0.0603
220.	0.1341	-0.0190	-0.0258	-0.0074	0.0029	0.0519	0.0982	-0.0210	-0.0213	-0.0123	-0.0295	0.0123	0.0096	0.0399	0.0357	0.0916
47.	0.1579	-0.0336	-0.0224	-0.0019	0.0196	0.0593	0.1125	-0.0421	-0.0373	-0.0331	-0.0318	0.0220	0.0186	0.0283	0.0356	0.0998
57.	0.1622	0.0004	0.0030	0.0235	0.0303	0.0740	0.1233	-0.0035	-0.0079	-0.0024	-0.0031	0.0350	0.0274	0.0467	0.0466	0.1037
52.	0.1763	-0.0037	0.0062	0.0229	0.0349	0.0825	0.1298	-0.0080	-0.0067	-0.0011	0.0047	0.0329	0.0335	0.0522	0.0559	0.1062
48.	0.1525	0.0044	0.0135	0.0241	0.0306	0.0617	0.1408	0.0062	-0.0001	-0.0054	0.0022	0.0195	0.0146	0.0354	0.0439	0.0768
258.	0.1860	0.0193	0.0238	0.0426	0.0486	0.0984	0.1550	0.0115	0.0075	0.0181	0.0185	0.0483	0.0435	0.0681	0.0708	0.1224
54.	0.2013	0.0184	0.0293	0.0472	0.0624	0.1077	0.1697	0.0084	0.0126	0.0195	0.0269	0.0528	0.0550	0.0741	0.0782	0.1366
49.	0.1746	0.0139	0.0249	0.0402	0.0547	0.0952	0.1635	0.0084	0.0141	0.0168	0.0214	0.0459	0.0478	0.0747	0.0802	0.1213
59.	0.1855	0.0196	0.0233	0.0440	0.0515	0.1000	0.1617	0.0130	0.0098	0.0179	0.0195	0.0488	0.0446	0.0699	0.0727	0.1236
120.	0.2003	0.0145	0.0164	0.0395	0.0602	0.1041	0.1599	0.0044	0.0145	0.0228	0.0180	0.0575	0.0595	0.0849	0.0858	0.1463
53.	0.2016	0.0259	0.0324	0.0518	0.0697	0.1141	0.1861	0.0230	0.0276	0.0326	0.0348	0.0605	0.0615	0.0917	0.0955	0.1411
60.	0.1899	0.0246	0.0278	0.0472	0.0563	0.1082	0.1944	0.0269	0.0197	0.0254	0.0279	0.0509	0.0455	0.0807	0.0850	0.1276
Run	CP221	CP222	CP223	CP225	CP226	CP227	CP228	CP229	CP230	CP231	CP232	CP233	CP234	CP235	CP236	CP237
61.	-0.0440	-0.0308	0.0396	0.0396	0.0917	0.0862	0.0694	0.0586	0.1042	0.0564	0.1013	0.0685	0.0593	0.1709	0.1867	0.1281
256.	0.0974	0.0878	0.1382	0.1819	0.1714	0.1830	0.1450	0.1537	0.1563	0.1244	0.1620	0.1859	0.1116	0.1950	0.1879	0.1464
220.	0.0773	0.1553	0.1606	0.2117	0.1993	0.1810	0.1916	0.1522	0.1453	0.1408	0.1579	0.2006	0.1327	0.2035	0.1882	0.1731
47.	0.0994	0.1228	0.1522	0.2088	0.1696	0.1586	0.1623	0.1716	0.1866	0.1872	0.1941	0.2229	0.1312	0.2193	0.2021	0.1745
57.	0.1102	0.1384	0.1636	0.2207	0.1958	0.1843	0.1832	0.1760	0.1807	0.1685	0.1860	0.2252	0.1365	0.2149	0.2004	0.1689
52.	0.1190	0.1456	0.1719	0.2414	0.2002	0.1910	0.1950	0.2069	0.2133	0.2047	0.2223	0.2544	0.1616	0.2379	0.2197	0.1898
48.	0.1113	0.1445	0.1791	0.2499	0.2267	0.2301	0.2045	0.1936	0.1699	0.1452	0.1771	0.2331	0.1430	0.2198	0.2020	0.1767
258.	0.1363	0.1728	0.1972	0.2521	0.2313	0.2114	0.2067	0.1931	0.1970	0.1906	0.2137	0.2522	0.1629	0.2452	0.2312	0.2018
54.	0.1462	0.1769	0.2001	0.2635	0.2332	0.2104	0.2071	0.2015	0.2049	0.2071	0.2276	0.2610	0.1669	0.2499	0.2344	0.2089
49.	0.1398	0.1899	0.2165	0.2740	0.2529	0.2358	0.2347	0.2163	0.2026	0.1965	0.2197	0.2667	0.1718	0.2545	0.2369	0.2153
59.	0.1417	0.1786	0.2040	0.2555	0.2422	0.2253	0.2163	0.1963	0.1933	0.1845	0.2146	0.2552	0.1678	0.2467	0.2326	0.2062
120.	0.1387	0.2011	0.2125	0.2736	0.2515	0.2244	0.2358	0.2084	0.2050	0.2112	0.2235	0.2700	0.1773	0.2597	0.2391	0.2208
53.	0.1546	0.2160	0.2354	0.2916	0.2772	0.2570	0.2502	0.2176	0.2013	0.1951	0.2228	0.2765	0.1856	0.2657	0.2473	0.2300
60.	0.1593	0.2217	0.2450	0.2966	0.3027	0.2897	0.2694	0.2201	0.1896	0.1728	0.2147	0.2760	0.1886	0.2658	0.2536	0.2330

Table VI. Continued

Run	CP238	CP239	CP240	CP241	CP242	CP243	CP244	CP245	CP246	CP247	CP248	CP249	CP250	CP251	CP252	CP257
61. 256. 220. 47. 57. 52. 48. 258. 54. 49. 59. 120. 53. 60.	0.1781 0.1651 0.1645 0.1653 0.1644 0.1838 0.1739 0.1951 0.1962 0.2003 0.1997 0.1982 0.2142 0.2227	0.1368 0.1414 0.1628 0.1613 0.1488 0.1703 0.1570 0.1816 0.1855 0.1866 0.1840 0.1903 0.2049 0.2050	0.1736 0.1673 0.1646 0.1659 0.1597 0.1808 0.1685 0.1924 0.1916 0.1933 0.1896 0.2087 0.2131	0.1122 0.1497 0.1765 0.1760 0.1612 0.1848 0.1755 0.1960 0.2016 0.2067 0.1978 0.2058 0.2251	0.2042 0.1961 0.2119 0.1985 0.2022 0.2145 0.2122 0.2383 0.2310 0.2387 0.2392 0.2413 0.2598 0.2675	0.1711 0.2005 0.2152 0.2135 0.2147 0.2324 0.2323 0.2490 0.2456 0.2544 0.2508 0.2537 0.2760 0.2782	0.2317 0.2486 0.2454 0.2322 0.2565 0.2425 0.2658 0.2648 0.2658 0.2627 0.2689 0.2868	-0.1558 -0.0486 -0.0669 -0.0612 -0.0425 -0.0385 -0.0255 -0.0166 -0.0344 -0.0223 -0.0302 -0.0219 -0.0217	$\begin{array}{c} -0.0525 \\ -0.0307 \\ -0.0211 \\ -0.0314 \\ -0.0128 \\ -0.0059 \\ -0.0279 \\ -0.0184 \\ -0.0186 \\ -0.0142 \end{array}$	-0.1931 -0.0051 0.0034 -0.0058 0.0167 0.0239 0.0310 0.0337 0.0383 0.0318 0.0348 0.0355 0.0489 0.0449	0.0426 0.0533 0.0232 0.0547 0.0378 0.0786	-0.0558 -0.0324 -0.0411	-0.2215 -0.0180 -0.0178 -0.0222 0.0015 0.0064 0.0139 0.0237 0.0258 0.0200 0.0245 0.0158 0.0302 0.0308	-0.1963 0.0240 0.0324 0.0281 0.0445 0.0538 0.0622 0.0628 0.0695 0.0754 0.0711 0.0882 0.0930	0.0915 0.0824 0.1018 0.1140 0.1175 0.1311 0.1368 0.1456 0.1386 0.1444 0.1608	-0.1798 -0.1279 -0.1675 -0.2091 -0.2621 -0.2149 -0.1754 -0.1651 -0.2049 -0.1833
220. 47. 57. 52. 48. 258. 54. 49. 59. 120.	-0.0725 -0.0472 -0.0718 -0.0880 -0.1359 -0.0983 -0.0557 -0.0560 -0.0923 -0.0657	-0.0294 -0.0554 -0.0347 -0.0476 -0.0599 -0.1045 -0.0629 -0.0275 -0.0218 -0.0531 -0.0349 -0.0468 -0.0260	-0.0456 0.0041 -0.0400 -0.0441 -0.0924 -0.0575 0.0002 0.0008 -0.0366 -0.0083	-0.0661 -0.0423 -0.0087 -0.0351 -0.0396 -0.0941 -0.0442 0.0054 0.0113 -0.0259 -0.0026	-0.0108 -0.0200 -0.0012 -0.0283 -0.0185 -0.0927 -0.0296 0.0290 0.0294 -0.0118 0.0198	-0.1244 -0.0345 -0.0290 -0.0312 -0.0184	-0.1023 -0.0276 -0.0206 -0.0300 -0.0127 -0.0100 0.0019	-0.1140 -0.0351 -0.0215 -0.0286 -0.0191	-0.0165 -0.0133 -0.0184 -0.0037 -0.0035	-0.1054 -0.0278 -0.0058 -0.0155 -0.0128 -0.0071	-0.0752 -0.0273 0.0113 -0.0122 -0.0130 -0.0119 -0.0173 0.0131 0.0189 0.0049 0.0132 0.0282 0.0283	CP269 -0.0574 -0.0362 -0.0161 -0.0158 -0.0278 -0.0320 -0.0334 -0.0064 0.0043 -0.0149 -0.0089 -0.0023 0.0026	CP270 -0.0362 -0.0541 -0.0139 -0.0603 -0.0773 -0.0784 -0.0317 -0.0273 -0.0573 -0.0387 -0.0286 -0.0326	CP271 -0.0594 -0.0772 -0.0364 -0.0599 -0.0897 -0.1150 -0.1002 -0.0608 -0.0537 -0.0854 -0.0693 -0.0645 -0.0610	CP272  0.0174 -0.0517 -0.0537 -0.0525 -0.0671 -0.1025 -0.0730 -0.0444 -0.0400 -0.0673 -0.0521 -0.0730	CP273 -0.4443 -0.0963 -0.0031 -0.0412 -0.0688 -0.0402 -0.0621 -0.0223 -0.0106 -0.0283 -0.0269 0.0196 0.0169

Table VI. Concluded

Run	CP274	CP275	CP276	CP277	CP278	CP279	CP280	CP281	CP282	CP283	CP284
61.	-0.0162	0.2369	0.2707	0.3091	0.2701	0.2171	0.3233	0.2597	0.3213	0.2551	0.1446
256.	-0.0603	0.2461	0.2856	0.3326	0.3282	0.2981	0.2949	0.2501	0.2350	0.2178	0.2176
220.	-0.0251	0.2845	0.3505	0.3370	0.3660	0.3470	0.2635	0.2404	0.2124	0.2004	0.2302
47.	-0.0598	0.2344	0.2464	0.2928	0.3121	0.3225	0.3367	0.3161	0.2735	0.2518	0.2328
57.	-0.0733	0.2468	0.2643	0.3301	0.3397	0.3182	0.3319	0.2795	0.2397	0.2281	0.2441
52.	-0.1085	0.2448	0.2437	0.3091	0.3412	0.3444	0.3379	0.2953	0.2520	0.2492	0.2601
48.	-0.0809	0.2950	0.3238	0.4009	0.3810	0.3287	0.2979	0.2091	0.1682	0.2046	0.2578
258.	-0.0429	0.2693	0.2904	0.3283	0.3515	0.3417	0.3332	0.2899	0.2577	0.2518	0.2600
54.	-0.0427	0.2647	0.2699	0.3161	0.3384	0.3383	0.3448	0.3082	0.2839	0.2758	0.2827
49.	-0.0697	0.2867	0.3092	0.3619	0.3662	0.3444	0.3260	0.2649	0.2250	0.2401	0.2708
59.	-0.0487	0.2862	0.3187	0.3619	0.3665	0.3357	0.3157	0.2660	0.2356	0.2434	0.2638
120.	-0.0530	0.2982	0.3346	0.3496	0.3816	0.3730	0.3172	0.2857	0.2530	0.2560	0.2787
53.	-0.0416	0.3256	0.3656	0.4029	0.4029	0.3657	0.3278	0.2605	0.2209	0.2516	0.2921
60.	-0.0468	0.3575	0.4232	0.4545	0.4317	0.3605	0.2952	0.2089	0.1801	0.2207	0.2844

Table VII. Pressure Coefficients for l/h=11.7 Cavity With Front Blocks

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
88.	0.29	1.0	1001.7	1063.5	60.5	57.0	0.8365	-0.3159	-0.2805	-0.2402	-0.2291	-0.1906	-0.1766	-0.1056	-0.1058	-0.0892
87.	0.60	1.6	720.6	916.9	179.7	61.4	0.9672	-0.2405	-0.2857	-0.2335	-0.2156	-0.1797	-0.1416	-0.0909	-0.0813	-0.0694
33. 286.	$0.59 \\ 0.80$	3.3 1.5	$1682.8 \\ 543.9$	$2134.9 \\ 826.7$	414.4 241.8	95.8 109.8	0.9827	-0.3062	-0.2922	-0.2073	-0.1979	-0.1652	-0.1396	-0.0803	-0.0644	
35.	0.79	3.3	1197.0	1812.0	526.9	107.8	1.1202	-0.3091 -0.3200	-0.3330	-0.2780	0.2579	0.2031	-0.1573	0.0872	-0.0816	-0.0592
132.	0.80	4.0	1398.6	2123.0	619.9	96.2	1.1160	-0.3594	-0.3690	-0.2676	-0.2339	-0.1903	-0.1471	-0.0809	-0.0003	-0.0512 -0.0546
186.	0.85	1.6	535.0	857.3	270.1	115.8	1.1616	-0.2804	-0.4109	-0.3071	-0.2827	-0.2168	-0.1581	-0.0895	-0.0769	-0.0540
234.	0.85	3.3	1093.8	1751.0	550.8	110.5	1.1576	-0.2838	-0.4457	-0.2870	-0.2550	-0.2039	-0.1550	-0.0831	-0.0653	-0.0490
232. 285.	0.85	4.0	1325.2	2122.7	668.3	110.0	1.1601	-0.3260	-0.4676	-0.2874	-0.2569	-0.2061	-0.1431	-0.0856	-0.0640	-0.0494
200. 134.	$0.90 \\ 0.90$	$\frac{1.6}{3.3}$	516.3 $1010.2$	870.5 $1702.1$	290.8 $568.3$	$115.0 \\ 108.0$	1.1933	-0.2111	-0.3750	-0.4156	-0.4164	-0.3109	-0.1713	-0.0867	-0.0635	-0.0402
185.	0.95	1.7	509.0	906.4	319.3	116.5	1.1909	-0.1971 -0.1112	-0.4676	-0.4204 $-0.3278$	-0.3810	0.2197	-0.1400	-0.0001	-0.0483	-0.0317
200.	0.00		000.0	000.1	010.0	110.0	1.2022	-0.1112	-0.2030	-0.5216	-0.3031	-0.3740	-0.3162	-0.2001	-0.1729	-0.0021
Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
00	-0.1234	0.1094	0.0050	0.0500	0.0602	0.0004	0.0007	0.0000	0.0701	0.0007	0.0000	0.0555	0.00	0.1001		
	-0.1234 -0.0878	-0.1024 -0.0750	-0.0832	-0.0362	-0.0003	-0.0924	-0.0907	-0.0630 -0.0406	-0.0791	0.0627	-0.0808	-0.0755	-0.0877	-0.1004	-0.0736	-0.0803
	-0.0685	-0.0527	-0.0340	-0.0273	-0.0087	-0.0463	-0.0335	-0.0241	-0.0439	-0.0370	-0.0420	-0.0417	-0.0343	-0.0031	-0.0490	-0.0562
	-0.0830	-0.0626	-0.0377	-0.0208	-0.0221	-0.0500	-0.0501	-0.0256	-0.0355	-0.0153	-0.0334	-0.0338	-0.0289	-0.0490	-0.0295	-0.0519
	-0.0655	-0.0488	-0.0240	-0.0206	-0.0073	-0.0417	-0.0303	-0.0211	-0.0236	-0.0156	-0.0158	-0.0203	-0.0300	-0.0424	-0.0363	-0.0402
	-0.0687	-0.0531	-0.0241	-0.0223	-0.0110	-0.0449	-0.0317	-0.0239	-0.0251	-0.0151	-0.0209	-0.0196	-0.0332	-0.0409	-0.0396	-0.0435
	-0.0751 $-0.0620$	-0.0557 -0.0459	0.0323	-0.0170	0.0046	0.0449	-0.0442	-0.0231	-0.0314	-0.0155	-0.0226	-0.0290	-0.0249	-0.0443	-0.0278	-0.0468
	-0.0620	-0.0459	-0.0212	-0.0179	-0.0040	-0.0398	-0.0269	-0.0209 -0.0208	-0.0233	-0.0142	-0.0120	0.0180	0.0270	0.0387	-0.0345	-0.0403 -0.0354
	-0.0607	-0.0441	-0.0227	-0.0109	-0.0095	-0.0429	-0.0426	-0.0243	-0.0219	-0.0155	-0.0070	-0.0159	-0.0204	-0.0381	-0.0373	-0.0334
134.	-0.0473	-0.0332	-0.0058	-0.0071	0.0007	-0.0347	-0.0242	-0.0177	-0.0194	-0.0037	-0.0126	-0.0108	-0.0196	-0.0281	-0.0279	-0.0377
185.	-0.0302	-0.0017	0.0178	0.0256	0.0185	-0.0221	-0.0263	-0.0142	-0.0222	-0.0061	-0.0113	-0.0187	-0.0178	-0.0330	-0.0268	-0.0410
-	~~	C T														
Run	CP38	CP39	CP40	CP41	CP42	CP43	CP47	CP67	CP68	CP107	CP108	CP109	CP110	CP111	CP112	CP113
	-0.0680	-0.0244		-0.0784			-0.2212				-0.1909			-0.0098	0.0203	0.0207
	-0.0497	-0.0034		-0.0459			-0.1725				-0.1533			0.0188	0.0526	0.0710
	-0.0397 -0.0416	0.0090 $-0.0055$		-0.0228 $-0.0342$		0.0582	-0.1472 $-0.1362$	-0.1425	0.0362	-0.1463	-0.1340	-0.0767	-0.0134	0.0412	0.0695	0.0874
	-0.0416	0.0003		-0.0342			-0.1362 $-0.1258$				-0.1302 -0.1223			0.0187 $0.0272$	$0.0671 \\ 0.0698$	$0.0878 \\ 0.0987$
	-0.0451	-0.0006		-0.0229			-0.1304				-0.1223			0.0272	0.0698 $0.0664$	0.0987 $0.0974$
186.	-0.0419	-0.0093	0.0681	-0.0299	-0.0350	0.0654	-0.1172	-0.1261			-0.1203			0.0165	0.0657	0.0914
	-0.0437	-0.0044		-0.0203			-0.1122		0.0239	-0.1191	-0.1149	-0.0828	-0.0310	0.0205	0.0670	0.0990
	-0.0440	-0.0034		-0.0171			-0.1055				-0.1107			0.0251	0.0688	0.1033
	-0.0401 -0.0380	-0.0126 -0.0036		-0.0248 -0.0160			-0.0918				-0.1002			0.0125	0.0606	0.0919
	-0.0380	-0.0036		-0.0160			-0.0970 $-0.0747$				-0.1027 -0.0895			0.0194 $0.0065$	0.0683 $0.0550$	$0.1018 \\ 0.0850$
	0.0002	0.0110	0.0001	0.0211	0.0021	0.0010	0.0141	0.0000	0.0104	0.0340	0.0030	-0.0100	-0.0001	0.0000	0.0000	0.0000

Table VII. Continued

Run	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135	CP136	CP137	CP138	CP139	CP140
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	$\begin{array}{c} 0.0545 \\ 0.0918 \\ 0.1110 \\ 0.1316 \\ 0.1307 \\ 0.1276 \\ 0.1388 \\ 0.1351 \\ 0.1376 \\ 0.1395 \\ 0.1421 \\ 0.1329 \end{array}$	$\begin{array}{c} 0.0670 \\ 0.1091 \\ 0.1250 \\ 0.1467 \\ 0.1514 \\ 0.1500 \\ 0.1568 \\ 0.1585 \\ 0.1621 \\ 0.1609 \\ 0.1692 \\ 0.1577 \end{array}$	0.0226 0.0348 0.0488 0.0228 0.0281 0.0261 0.0142 0.0182 0.0184 0.0034 0.0164 -0.0035	0.0818 0.1014 0.0501 0.0561 0.0502 0.0374 0.0393 0.0402 0.0251 0.0316	$\begin{array}{c} -0.1733 \\ -0.1683 \\ -0.1434 \\ -0.1365 \\ -0.1333 \\ -0.1278 \\ -0.1208 \\ -0.1191 \\ -0.1062 \\ -0.0978 \end{array}$	$\begin{array}{c} -0.1767 \\ -0.1592 \\ -0.1290 \\ -0.1303 \\ -0.1324 \\ -0.1140 \\ -0.1158 \\ -0.1152 \\ -0.0919 \\ -0.0960 \end{array}$	-0.2259 -0.1772 -0.1654 -0.1424 -0.1365 -0.1359 -0.1271 -0.1219 -0.1202 -0.1046 -0.1011 -0.0874	$\begin{array}{c} -0.1776 \\ -0.1592 \\ -0.1343 \\ -0.1332 \\ -0.1360 \\ -0.1187 \\ -0.1187 \\ -0.0951 \\ -0.1000 \end{array}$	$\begin{array}{c} -0.1836 \\ -0.1672 \\ -0.1508 \\ -0.1424 \\ -0.1432 \\ -0.1343 \\ -0.1280 \\ -0.1245 \\ -0.1090 \\ -0.1091 \end{array}$	-0.1818 -0.1546 -0.1459 -0.1369 -0.1452 -0.1290 -0.1264 -0.1213 -0.1013 -0.1116	$\begin{array}{c} -0.1739 \\ -0.1598 \\ -0.1488 \\ -0.1389 \\ -0.1368 \\ -0.1310 \\ -0.1284 \\ -0.1189 \\ -0.1149 \end{array}$	$\begin{array}{c} -0.1379 \\ -0.1280 \\ -0.1232 \\ -0.1210 \\ -0.1219 \\ -0.1176 \\ -0.1149 \\ -0.1147 \\ -0.1070 \\ -0.1013 \end{array}$	-0.0933 -0.0761 -0.1017 -0.0902 -0.0916 -0.1009 -0.0912 -0.0889 -0.0960 -0.0863	$\begin{array}{c} -0.0235 \\ -0.0166 \\ -0.0382 \\ -0.0423 \\ -0.0405 \\ -0.0487 \\ -0.0486 \\ -0.0584 \\ -0.0472 \end{array}$	0.0505 0.0592 0.0109 0.0136 0.0141 -0.0049 -0.0004 0.0015 -0.0228 -0.0049	$\begin{array}{c} 0.1480 \\ 0.1215 \\ 0.1342 \\ 0.0834 \\ 0.0822 \\ 0.0806 \\ 0.0617 \\ 0.0616 \\ 0.0634 \\ 0.0360 \\ 0.0497 \\ 0.0241 \end{array}$
Run	CP141	CP147	CP148	CP149	CP150	CP151	CP152	CP153	CP154	CP157	CP158	CP159	CP161	CP162	CP163	CP164
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.1694 0.1864 0.1320 0.1393 0.1383 0.1110 0.1187 0.1184 0.0833 0.1004	-0.1884 -0.1748 -0.1530 -0.1423 -0.1448 -0.1359 -0.1289 -0.1261 -0.1111 -0.1072	-0.2214 -0.1847 -0.1740 -0.1454 -0.1455 -0.1474 -0.1339 -0.1364 -0.1359 -0.1169 -0.1149 -0.0998	-0.1782 -0.1731 -0.1487 -0.1461 -0.1432 -0.1375 -0.1344 -0.1352 -0.1243 -0.1134	-0.1468 -0.1356 -0.1218 -0.1229 -0.1228 -0.1135 -0.1141 -0.1141 -0.1017 -0.0979	-0.0956 -0.0798 -0.0915 -0.0862 -0.0885 -0.0893 -0.0837 -0.0806 -0.0827 -0.0753	-0.0068 -0.0291 -0.0303 -0.0316 -0.0343 -0.0342 -0.0408 -0.0313	$\begin{array}{c} 0.0739 \\ 0.0651 \\ 0.0793 \\ 0.0248 \\ 0.0353 \\ 0.0314 \\ 0.0129 \\ 0.0229 \\ 0.0253 \\ 0.0029 \\ 0.0146 \\ -0.0045 \end{array}$	0.1308 0.1468 0.1024 0.1018 0.0993 0.0857 0.0859 0.0870 0.0658 0.0734	-0.2420 -0.1882 -0.1783 -0.1528 -0.1458 -0.1460 -0.1367 -0.1320 -0.1300 -0.1144 -0.1093 -0.0938	$\begin{array}{c} -0.1447 \\ -0.1188 \\ -0.1246 \\ -0.1151 \\ -0.1226 \\ -0.1140 \\ -0.1092 \\ -0.1047 \\ -0.0947 \\ -0.0985 \end{array}$	0.0142	0.1662 0.1936 0.2151 0.1737 0.1853 0.1838 0.1574 0.1655 0.1713 0.1311 0.1471 0.1082	0.1821 0.2092 0.2233 0.2236 0.2207 0.2199 0.2131 0.2080 0.2099 0.1835 0.1954 0.1589	0.2139 0.2339 0.2346 0.2429 0.2401 0.2349 0.2377	0.2441 0.2685 0.2655 0.2651 0.2701 0.2656 0.2672 0.2524 0.2623
Run	CP165	CP166	CP167	CP168	CP169	CP170	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.2040 0.2493 0.2693 0.2840 0.2886 0.2884 0.2910 0.2931 0.2742 0.2856 0.2519	0.2672 0.2954 0.3072 0.3308 0.3266 0.3251 0.3293 0.3253 0.3210 0.3076 0.3191 0.2841	0.3203 0.3573 0.3750 0.3748 0.3760 0.3730 0.3681 0.3660 0.3404 0.3524 0.3106	0.4298 0.4502 0.4621 0.4597 0.4586 0.4558 0.4477 0.4425 0.4051 0.4250 0.3634	0.4715 0.4987 0.5126 0.5041 0.5094 0.5072 0.4908 0.4940 0.4880 0.4409 0.4678 0.3910	0.5326 0.5483 0.5730 0.5515 0.5545 0.5521 0.5360 0.5361 0.5362 0.4884 0.5056 0.4328	0.5526 0.5655 0.5804 0.5616 0.5643 0.5720 0.5403 0.5411 0.5410 0.4765 0.5128 0.4118	0.4921 0.4806 0.5296 0.4300 0.4517 0.4620 0.3981 0.4151 0.4275 0.3421 0.3730 0.2899	0.4170 0.4535 0.4761 0.4781 0.4839 0.4817 0.4790 0.4795 0.4821 0.4626 0.4703 0.4406	0.1656 0.1696 0.1789 0.1561 0.1510 0.1545 0.1377 0.1367 0.1354 0.1120 0.1240 0.0963	0.1658 0.1888 0.2023 0.1905 0.1895 0.1917 0.1772 0.1799 0.1799 0.1541 0.1657 0.1356	0.1827 0.2084 0.2197 0.2259 0.2218 0.2235 0.2190 0.2179 0.2189 0.1991 0.2079 0.1788	0.1797 0.2238 0.2464 0.2448 0.2520 0.2511 0.2448 0.2548 0.2548 0.2306 0.2399 0.2097	0.2344 0.2633 0.2703 0.2985 0.2889 0.2937 0.2944 0.2881 0.2865 0.2711 0.2825 0.2497	0.3267 0.3338 0.3347 0.3383 0.3275 0.3283	0.3842 0.4027 0.3821 0.3809 0.3799 0.3702 0.3668 0.3615 0.3337 0.3429

Table VII. Continued

Run	CP181	CP182	CP183	CP184	CP185	CP186	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.4142 0.4322 0.4142 0.4202 0.4153 0.4089 0.4112 0.4077 0.3764 0.3880	0.4460 0.4593 0.4629 0.4618 0.4563 0.4555 0.4538 0.4489 0.4161 0.4299	0.4778 0.4963 0.4918 0.4966 0.4930 0.4847 0.4863 0.4831 0.4409 0.4612	$\begin{array}{c} 0.4885 \\ 0.5048 \\ 0.5241 \\ 0.5134 \\ 0.5160 \\ 0.4999 \\ 0.4986 \\ 0.4978 \\ 0.4483 \\ 0.4729 \\ 0.3953 \end{array}$	0.4353 0.4772 0.4131 0.4382 0.4389 0.3899 0.4059 0.4079 0.3344 0.3688	0.4114 0.4418 0.4342 0.4402 0.4367 0.4283 0.4261 0.4238 0.3938 0.4073	0.2548 0.2717 0.2904 0.2851 0.2859 0.2908 0.2870 0.2893 0.2735 0.2787	0.4471 0.4624 0.4290 0.4382 0.4346 0.4124 0.4178 0.4151 0.3734 0.3964	0.5092 0.5408 0.5020 0.5123 0.5066 0.4877 0.4926 0.4980 0.4498 0.4630	0.4596 0.4700 0.5139 0.4252 0.4515 0.4520 0.3980 0.4096 0.4225 0.3396 0.3689 0.2840	0.0952 0.1391 0.1554 0.1724 0.1802 0.1806 0.1849 0.1871 0.1930 0.1894 0.1853	0.1554 0.1875 0.2079 0.2292 0.2261 0.2238 0.2380 0.2317 0.2351 0.2370 0.2365 0.2305	0.1658 0.2074 0.2312 0.2359 0.2445 0.24431 0.2450 0.2489 0.2549 0.2428 0.2477 0.2354	0.2098 0.2412 0.2559 0.2758 0.2740 0.2719 0.2782 0.2726 0.2722 0.2648 0.2714 0.2565	0.2857 $0.2980$	0.3096 0.3248 0.3283 0.3287 0.3290 0.3178 0.3189 0.3142 0.2880 0.3001
Run	CP199	CP200	CP201	CP202	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.3367 0.3439 0.3441 0.3467 0.3508 0.3166 0.3246 0.3163 0.2826 0.3036	0.3756 0.3785 0.3491 0.3527 0.3606 0.3271 0.3297 0.3196 0.3035 0.3149	0.3781 0.3964 0.3427 0.3475 0.3503 0.3473 0.3427 0.3493 0.3268 0.3446	0.3662 0.3704 0.3771 0.3994 0.3990 0.3885 0.3997 0.3889 0.3915 0.3630 0.3865 0.3259	0.3739 0.3980 0.3925 0.4122 0.4078 0.3854 0.3901 0.4007 0.3386 0.3609	0.3538 0.3800 0.3441 0.3653 0.3601 0.3213 0.3224 0.3426 0.2627 0.2815	0.3633 0.3868 0.3832 0.3929 0.4003 0.3729 0.3730 0.3769 0.3362 0.3631	0.2657 0.2796 0.2901 0.2853 0.2852 0.2866 0.2828 0.2844 0.2668 0.2719	0.2740 0.2848 0.3022 0.3007 0.3014 0.2971 0.2963 0.2936 0.2716 0.2866	0.4404 0.4582 0.4673 0.4190 0.4234 0.4277 0.4005 0.4030 0.3992 0.3700 0.3813 0.3446	0.4320 0.4500 0.4620 0.4140 0.4193 0.4215 0.3994 0.4056 0.4014 0.3699 0.3852 0.3453	0.4753 0.4855 0.4916 0.4828 0.4854 0.4829 0.4617 0.4600 0.4633 0.4068 0.4375 0.3544	0.5096 0.5361 0.5577 0.5451 0.5481 0.5487 0.5379 0.5359 0.5441 0.4976 0.5161 0.4510	0.5712 0.6119 0.6189 0.6350 0.6335 0.6419 0.6384 0.6273 0.6275 0.6120 0.6264 0.5858	0.5711 0.6065 0.6250 0.6414 0.6330 0.6336 0.6393 0.6212 0.6160 0.5994 0.6054 0.5625	$\begin{array}{c} 0.6921 \\ 0.7075 \\ 0.7142 \\ 0.7154 \\ 0.7181 \\ 0.7246 \\ 0.7127 \\ 0.7104 \\ 0.6883 \\ 0.6934 \end{array}$
Run	CP228	CP230	CP231	CP232	CP233	CP245	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.7418 0.7443 0.7878 0.7710 0.7773 0.7963 0.7711 0.7665 0.7595 0.7656	0.7576 0.7764 0.7893 0.7786 0.7896 0.7944 0.7839 0.7806 0.7623 0.7728	0.7091 0.7279 0.7314 0.7159 0.7290 0.7224 0.7176 0.7126 0.6822 0.7063	0.6225 0.6468 0.6403 0.6345 0.6382 0.6322 0.6321 0.6206 0.5931 0.6112	0.6029 0.6196 0.6368 0.6294 0.6401 0.6354 0.6353 0.6261 0.6074 0.6277	0.0924 0.1141 0.1200 0.1315 0.1298 0.1294 0.1371 0.1425 0.1317 0.1398	0.1925 0.2085 0.2295 0.2291 0.2284 0.2366 0.2353 0.2375 0.2336 0.2386	0.3553 0.3621 0.3265 0.3255 0.3222 0.3162 0.3152 0.2993 0.3074	0.3708 0.3905 0.4065 0.4046 0.4013 0.3876 0.3906 0.3888 0.3366 0.3564	-0.7912 -0.7008 -0.6980 -0.6819 -0.6802 -0.6583 -0.6617 -0.6462 -0.5943 -0.6242 -0.5794	-0.5350 -0.5096 -0.5304 -0.5393 -0.5458 -0.5080 -0.5220 -0.5045 -0.4282 -0.4745	-0.3078 -0.2934 -0.3478 -0.3477 -0.3502 -0.3414 -0.3466 -0.3322 -0.2874 -0.3184	-0.1846 -0.1731 -0.2031 -0.2128 -0.2123 -0.2034 -0.2176 -0.2072 -0.1684 -0.1946	-0.1275 -0.1165 -0.1432 -0.1455 -0.1442 -0.1241 -0.1443 -0.1335 -0.1064 -0.1279	-0.0938 -0.0755 -0.0922 -0.0989 -0.1018 -0.0822 -0.0943 -0.0819 -0.0490 -0.0797	0.0808 0.1000 0.1149 0.1206 0.1199 0.1255 0.1294 0.1331 0.1321

Table VII. Concluded

Run	CP264	CP265	CP266	CP267	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278	CP279
88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	0.0449 0.0884 0.1078 0.1333 0.1343 0.1329 0.1456 0.1454 0.1483 0.1537 0.1566 0.1568	0.0895 0.1056 0.1299 0.1384 0.1386 0.1455 0.1509 0.1536 0.1569 0.1642	0.0453 0.0912 0.1132 0.1399 0.1415 0.1405 0.1535 0.1535 0.1575 0.1636 0.1654 0.1730	0.0746 0.0892 0.1116 0.1170 0.1186 0.1215 0.1259 0.1284 0.1310 0.1401	0.0394 0.0481 0.0718 0.0681 0.0699 0.0765 0.0740	$\begin{array}{c} -0.0328 \\ -0.0198 \\ -0.0235 \\ -0.0172 \\ -0.0165 \\ -0.0160 \\ -0.0114 \\ -0.0068 \\ -0.0030 \\ 0.0038 \end{array}$	$\begin{array}{c} -0.1378 \\ -0.1293 \\ -0.1379 \\ -0.1426 \\ -0.1427 \\ -0.1362 \\ -0.1413 \\ -0.1375 \\ -0.1162 \\ -0.1200 \end{array}$	-0.2072 -0.2100 -0.1991 -0.2407 -0.2411 -0.2397 -0.2425 -0.2462 -0.2360 -0.2095 -0.2254 -0.1949	$\begin{array}{c} -0.1900 \\ -0.1645 \\ -0.2220 \\ -0.2181 \\ -0.2215 \\ -0.2189 \\ -0.2213 \\ -0.2057 \\ -0.1812 \\ -0.2098 \end{array}$	0.0851 0.0660 0.1347 0.1229 0.1339 0.1283 0.1319 0.1228 0.1296 0.1641	$\begin{array}{c} -0.1974 \\ -0.1806 \\ -0.2199 \\ -0.2269 \\ -0.2271 \\ -0.2220 \\ -0.2317 \\ -0.2211 \\ -0.1853 \\ -0.2117 \end{array}$	$\begin{array}{c} 0.4962 \\ 0.5175 \\ 0.5197 \\ 0.5308 \\ 0.5328 \\ 0.5122 \\ 0.5142 \\ 0.5132 \\ 0.4731 \\ 0.4989 \end{array}$	0.6240	0.7624 0.7792 0.7755 0.7809 0.7841 0.7731 0.7695 0.7719 0.7214		0.8533 0.8471 0.8883 0.8765 0.8909 0.8837 0.8751 0.8749 0.8386 0.8664
Run 88. 87. 33. 286. 35. 132. 186. 234. 232. 285. 134. 185.	CP280 0.8178 0.8541 0.8624 0.8786 0.8739 0.8858 0.8743 0.8588 0.8528 0.8199 0.8344 0.7528	0.7629 0.7922 0.7951 0.7940 0.7906 0.7984 0.7779 0.7730 0.7583 0.7145 0.7409	0.6454 0.6548 0.6755 0.6618 0.6619 0.6513 0.6333 0.6356	0.4836 0.5167 0.5468 0.5268 0.5386 0.5324 0.5170 0.5178 0.4696 0.4986	CP284 0.6090 0.6169 0.6138 0.6280 0.6174 0.6208 0.6246 0.6058 0.6072 0.5886 0.6051 0.5585											

Table VIII. Pressure Coefficients for l/h=11.7 Cavity With Rear Block

Run $M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
281. 0.80 181. 0.85 280. 0.90 180. 0.95	1.5 1.6 1.7 1.7	547.2 538.7 517.2 500.1	831.5 862.1 871.6 894.4	243.2 271.1 291.1 316.3	109.7 116.4 113.5 114.5	1.1551 1.2004	-0.2944 $-0.2153$	-0.4208 $-0.3852$	-0.3073 $-0.4134$	-0.2815 -0.4103	-0.2173 -0.2926	-0.1655 -0.1614	-0.0941 $-0.0829$	-0.0864 -0.0803 -0.0589 -0.1835	-0.0575 $-0.0357$
Run CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
2810.0868 1810.0778 2800.0551 1800.0265	-0.0654 -0.0582 -0.0376 0.0054	-0.0361	-0.0203 -0.0060	-0.0177 -0.0030	-0.0483 -0.0375	-0.0484 -0.0374	-0.0274 -0.0203	-0.0366 -0.0269	-0.0214 $-0.0147$	-0.0279 -0.0134	-0.0374 -0.0250	-0.0348 -0.0240	-0.0560 -0.0422	-0.0433 -0.0397 -0.0320 -0.0308	-0.0646 -0.0509
Run CP38	CP39	CP40	CP41	CP42	CP43	CP44	CP45	CP46	CP47	CP48	CP49	CP50	CP65	CP66	CP67
2810.0479 1810.0478 2800.0414 1800.0442	-0.0041 -0.0058 -0.0040 -0.0116	$0.0685 \\ 0.0742$	-0.0432 -0.0383 -0.0232 -0.0238	-0.0387 -0.0336	$0.0648 \\ 0.0690$	-0.1010 -0.0806	-0.1144 $-0.0933$	-0.0986 -0.0729	-0.1007 -0.0749	-0.1036 $-0.0854$	-0.1184 -0.0926	-0.0982 -0.0792	-0.1250 -0.1028	-0.1183 -0.1086 -0.0846 -0.0781	-0.1097 -0.0906
Run CP68	CP80	CP84	CP85	CP97	CP98	CP99	CP100	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108
281. 0.0365 181. 0.0323 280. 0.0280 180. 0.0207	-0.1181 -0.1114 -0.0920 -0.0842	-0.1101 -0.0879	-0.1188 -0.0968	-0.1155 -0.0930	-0.1088 -0.0911	-0.1226 -0.1041	-0.1080 -0.0820	-0.1204 -0.1004	-0.1102 -0.0901	-0.1177 $-0.0933$	-0.1129 -0.0942	-0.1228 -0.1005	-0.1116 -0.0866	-0.1274 -0.1182 -0.0957 -0.0866	-0.1014 $-0.0797$
Run CP109	CP110	CP111	CP112	CP113	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135
2810.0773 1810.0747 2800.0603 1800.0587	-0.0168 -0.0202 -0.0236 -0.0235	$\begin{array}{c} 0.0294 \\ 0.0259 \\ 0.0264 \\ 0.0186 \end{array}$	$\begin{array}{c} 0.0757 \\ 0.0741 \\ 0.0746 \\ 0.0655 \end{array}$	$\begin{array}{c} 0.0936 \\ 0.0983 \\ 0.1052 \\ 0.0971 \end{array}$	0.1361 $0.1418$ $0.1489$ $0.1433$	0.1535 0.1607 0.1700 0.1680	$\begin{array}{c} 0.0568 \\ 0.0465 \\ 0.0331 \\ 0.0204 \end{array}$	$0.0780 \\ 0.0614$	-0.1252 -0.1058	-0.1097 -0.0905	-0.1263 -0.1052	-0.1160 -0.0948	-0.1263 -0.1032	-0.1235 -0.1150 -0.0877 -0.0829	-0.1291 -0.1061

Table VIII. Continued

Run	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144	CP145	CP146	CP147	CP148	CP149	CP150	CP151
181. 280.	-0.1372 -0.1268 -0.1073 -0.0959	-0.1236 -0.1047	-0.0771 -0.0740	-0.0296 -0.0376	0.0653 0.0491 0.0270 0.0116	$0.1093 \\ 0.0857$	-0.1148 -0.0997	-0.1326 -0.1256 -0.1085 -0.0966	-0.1212 -0.1010	-0.1341 -0.1170	-0.1127 $-0.0941$	-0.1255 -0.1035	-0.1187 $-0.0994$	-0.1349 -0.1181	-0.1124 $-0.0974$	-0.0803 -0.0738
Run	CP152	CP153	CP154	CP155	CP156	CP157	CP158	CP159	CP161	CP162	CP163	CP164	CP165	CP166	CP167	CP168
181. 280.	-0.0071 -0.0150 -0.0252 -0.0318	0.0639 0.0497 0.0302 0.0113	$0.1309 \\ 0.1062$	-0.1241 -0.1023	-0.1228 -0.1160 -0.0964 -0.0899	-0.1256 -0.1056	-0.1106 -0.0880	0.0668 0.0494 0.0263 0.0097	0.1678 0.1592 0.1392 0.1089	0.2148 0.2115 0.1934 0.1653	0.2249 0.2316 0.2278 0.2043	0.2562 0.2646 0.2644 0.2451	0.2723 0.2840 0.2891 0.2725	0.3226 0.3305 0.3285 0.3107	$\begin{array}{c} 0.3680 \\ 0.3727 \\ 0.3664 \\ 0.3420 \end{array}$	$\begin{array}{c} 0.4331 \\ 0.4312 \\ 0.4099 \\ 0.3803 \end{array}$
Run	CP169	CP170	CP174	CP175	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP188	CP189	CP190	CP193
281. 181. 280. 180.	0.4545 0.4503 0.4249 0.3930	0.4903 0.4849 0.4603 0.4222	0.1923 0.1825 0.1568 0.1263	0.2138 0.2133 0.1996 0.1720	0.2365 0.2431 0.2400 0.2181	0.2466 0.2587 0.2670 0.2492	0.2872 0.2980 0.3004 0.2872	0.3177 0.3290 0.3312 0.3142	0.3779 0.3854 0.3814 0.3562	0.4277 0.4310 0.4182 0.3872	0.4660 0.4666 0.4468 0.4131	0.4871 0.4879 0.4665 0.4289	0.2848 0.2962 0.3042 0.2886	0.4325 0.4343 0.4165 0.3869	0.5043 0.5034 0.4839 0.4422	0.1857 0.1940 0.2027 0.1986
Run	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202	CP203	CP204	CP212	CP213	CP216	CP217	CP245
281. 181. 280. 180.	0.2453 0.2534 0.2575 0.2492	0.2535 0.2636 0.2705 0.2598	0.2906 0.2979 0.2989 0.2861	$\begin{array}{c} 0.3044 \\ 0.3152 \\ 0.3192 \\ 0.3015 \end{array}$	$\begin{array}{c} 0.3433 \\ 0.3508 \\ 0.3491 \\ 0.3290 \end{array}$	0.3597 0.3640 0.3578 0.3375	0.3879 0.3918 0.3825 0.3602	0.3914 0.3983 0.3924 0.3691	0.4089 0.4143 0.4046 0.3879	0.3883 0.4027 0.4048 0.3937	0.3976 0.4173 0.4345 0.4354	0.2899 0.2979 0.3019 0.2844	0.2921 0.3015 0.3057 0.2902	0.4446 0.4454 0.4282 0.4000	0.4444 0.4447 0.4246 0.3965	0.1235 $0.1310$ $0.1424$ $0.1371$
Run	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263	CP264	CP265	CP266	CP267	CP268	CP269
281. 181. 280. 180.	0.2411 0.2488 0.2550 0.2486	0.3796 0.3848 0.3790 0.3564	$0.4000 \\ 0.4048$	-0.6758 -0.6226	-0.4689 -0.3951	-0.3002 -0.2411	-0.1686 -0.1329	-0.1231 -0.1181 -0.0839 -0.0743	-0.0728 -0.0378	0.1027 0.1148 0.1329 0.1387	$\begin{array}{c} 0.1179 \\ 0.1311 \\ 0.1518 \\ 0.1602 \end{array}$	0.1142 0.1308 0.1550 0.1665	$\begin{array}{c} 0.1266 \\ 0.1424 \\ 0.1669 \\ 0.1798 \end{array}$	$\begin{array}{c} 0.1052 \\ 0.1217 \\ 0.1459 \\ 0.1625 \end{array}$	0.0769 $0.0923$ $0.1154$ $0.1350$	-0.0028 0.0137 0.0424 0.0647

Table VIII. Concluded

Run CP270 CP271 CP272 CP273 CP274

281. -0.1127 -0.2149 -0.1915 0.0945 -0.1869 181. -0.1053 -0.2239 -0.2008 0.1066 -0.1995 280. -0.0791 -0.2050 -0.1726 0.1184 -0.1761 180. -0.0578 -0.2094 -0.1965 0.1452 -0.1966

Table IX. Pressure Coefficients for l/h=11.7 Cavity With Fence

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
278.	0.29	1.0	1113.5	1182.6	67.6	88.6	0.7876	-0.2880	-0.2821	-0.2704	-0.2075	-0.1542	-0.1844	-0.0381	-0.1207	-0.0642
178.	0.59	1.6	797.7	1013.0	197.3	98.8	0.9535	-0.1769	-0.2857	-0.2330		-0.1616	-0.1453	-0.0660	-0.0787	-0.0535
242.	0.61	1.6	785.0	1006.2	202.0	93.1	0.9399	-0.2176	-0.2924	-0.2237	-0.2021	-0.1623	-0.1590	-0.0712	-0.0748	-0.0550
145.	0.60	3.3	1636.6	2084.7	410.1	93.1	0.9769	-0.2904	-0.2906	-0.2129	-0.1946	-0.1621	-0.1022	-0.0732	-0.0626	-0.0497
277.	0.79	1.5	554.0	839.1	244.2	108.4	1.1146	-0.2925	-0.3524	-0.2745		-0.1942			-0.0762	-0.0520
44.	0.80	3.3	1207.1	1835.2	537.2	110.5	1.1197	-0.3176	-0.3624			-0.1869			-0.0603	-0.0455
245.	0.80	3.9	1367.8	2082.7	611.1	102.3	1.1224	-0.3407		-0.2528		-0.1878			-0.0597	-0.0448
177.	0.85	1.6	541.2	863.8	270.7	115.3	1.1537	-0.2732	-0.3987			-0.2020			-0.0670	-0.0435
243.	0.85	3.3	1101.3	1764.2	555.5	110.9	1.1612	-0.2916		-0.2808		-0.1984			-0.0582	-0.0419
46.	0.84	3.9	1312.4	2093.6	655.7	111.5	1.1630	-0.3235		-0.2726			-0.1331	-0.0802		-0.0388
276.	0.91	1.7	519.2	885.3	299.3	116.4	1.1669	-0.1862	0.000			-0.2387		-0.0693	-0.0516	-0.0286
142.	0.90	1.9	585.1	990.0	332.1	99.6	1.1803	-0.1804		-0.4119				-0.0625	-0.0509 -0.0425	-0.0307 -0.0262
143.	0.90	3.3	1016.1	1715.2	573.8	107.7	1.1946		-0.4916		-0.3579	-0.2060	-0.1436	-0.0627 -0.2323	-0.0425 $-0.1110$	-0.0202
176.	0.95	1.8	507.1	909.7	322.5	117.2	1.2086	-0.0875	-0.3026	-0.3212	-0.3027	-0.3028	-0.3041	-0.2323	-0.1110	-0.0290
D	CD11	CD19	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
Run	CP11	CP12	CP13	CP14	CF15	CF10	CFI	CF 10	CF 19	C1 20	01 21	C1 55	01 34	C1 55	C1 50	01 01
278.	-0.1394	-0.0955	-0.0546	-0.0276	-0.0991	-0.0789	-0.1023	-0.0235	-0.0623	0.0657	-0.1121	-0.0010	0.1126	0.2158	0.0194	-0.1775
178.	-0.0856	-0.0636	-0.0335	-0.0168	-0.0294	-0.0438	-0.0433	-0.0072	-0.0138	0.0332	0.0041	0.0569	0.1402	0.2588	0.0349	-0.0983
242.	-0.0813	-0.0610	-0.0343	-0.0232	-0.0199	-0.0420	-0.0371	-0.0071	-0.0106	0.0248	0.0141	0.0588	0.1358	0.2533	0.0321	-0.0953
145.	-0.0669	-0.0510	-0.0262	-0.0160	-0.0049	-0.0322	-0.0194	-0.0034	0.0010	0.0181	0.0421	0.0745	0.1396	0.2685	0.0255	-0.0770
277.	-0.0765	-0.0560	-0.0280	-0.0104	-0.0130	-0.0337	-0.0298	0.0014	0.0008	0.0394	0.0396	0.0864	0.1768	0.3002	0.0674	-0.0755
44.	-0.0583	-0.0420	-0.0172	-0.0105		-0.0203		0.0064	0.0134	0.0331	0.0660	0.1004	0.1780	0.3094	0.0621	-0.0589
245.	-0.0565	-0.0401		-0.0066		-0.0201	-0.0066	0.0065	0.0147	0.0307	0.0703	0.1024	0.1768	0.3107	0.0602	-0.0561
177.	-0.0641	-0.0446	0.0202	-0.0019				0.0102	0.0116	0.0448	0.0605	0.1015	0.1930	0.3147	0.0835	-0.0578
243.	-0.0539	-0.0377	-0.0120	-0.0061		0.0-00		0.0093	0.0170	0.0396	0.0715	0.1098	0.1905	0.3227		-0.0579
46.	-0.0483	-0.0320	0.00	-0.0007		-0.0131	-0.0001	0.0116	0.0213	0.0346	0.0840	0.1129	0.1903	0.3225	0.0731	-0.0472
276.	-0.0488	-0.0300	-0.0079	0.0059			-0.0133	0.0123	0.0162	0.0485	0.0676 $0.0592$	0.1090	0.2003 $0.2025$	0.3193 $0.3300$	0.0930 $0.0943$	-0.0570 -0.0654
142.	-0.0493	-0.0326	-0.0018	0.0018	0.0068	-0.0186		0.0115	0.0173 $0.0226$	0.0565 $0.0509$	0.0592 $0.0767$	$0.1150 \\ 0.1223$	0.2025 $0.2056$	0.3382		-0.054 $-0.0547$
143.	-0.0399	-0.0256	0.0019	0.0037 $0.0359$		-0.0111 -0.0016	-0.0005 $0.0003$	0.0138 $0.0214$	0.0226 $0.0256$	0.0509	0.0767	0.1225 $0.1246$	0.2030 $0.2185$	0.3362 $0.3407$		
176.	-0.0137	0.0092	0.0279	0.0359	0.0309	-0.0010	0.0003	0.0214	0.0250	0.0590	0.0193	0.1240	0.2100	0.3407	0.1031	-0.0034

Table IX. Continued

Run	CP38	CP39	CP40	CP41	CP42	CP43	CP44	CP45	CP46	CP47	CP48	CP49	CP50	CP65	CP66	CP67
278	-0.0996	-0.0844	-0.0035	-0.0621	-0.1016	0.0092	-0.2049	-0.2376	-0.2796	-0.2827	-0.1778	-0.3147	-0.1836	-0.2581	-0.2642	-0.2746
178.	-0.0982														-0.1756	
242.	-0.0980	-0.0865	-0.0200					-0.1650							-0.1694	
145.	-0.1039	-0.0873	-0.0256	0.0365	-0.0982	-0.0267	-0.1477	-0.1524	-0.1504	-0.1540	-0.1540	-0.1538	-0.1487	-0.1586	-0.1570	-0.1891
277.	-0.0909	-0.0995	-0.0639	0.0611	-0.0899	-0.0660	-0.1264	-0.1359	-0.1317	-0.1360	-0.1241	-0.1471	-0.1227	-0.1449	-0.1369	-0.1590
44.	-0.0926	-0.0955	-0.0676	0.0748	-0.0889	-0.0704	-0.1184	-0.1221	-0.1126	-0.1172	-0.1229	-0.1211	-0.1197	-0.1297	-0.1218	-0.1468
245.	-0.0934	-0.0954	-0.0682												-0.1197	
177.	-0.0784	-0.0885	-0.0621												-0.1142	
243.	-0.0904	-0.0941	-0.0727	0.000	0.000										-0.1198	
46.	-0.0886		-0.0713	0.00.00	0.000	0.0.0	0.2000								-0.1069	
276.	-0.0786		-0.0671												-0.1108	
142.	-0.0814							-0.1158								-0.1320
143.	-0.0842	0.000.													-0.1147	
176.	-0.0811	-0.0930	-0.0744	0.1090	-0.0779	-0.0779	-0.1048	-0.1133	-0.1043	-0.1075	-0.1044	-0.1172	-0.1026	-0.1201	-0.1120	-0.1282
Run	CP68	CP80	CP84	CP85	CP97	CP98	CP99	CP100	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108
20022	01 00	0200	0.0.													
278.	-0.1149	-0.1957	-0.2332	-0.2476	-0.2473	-0.1836	-0.2046	-0.2566	-0.2184	-0.1993	-0.2580	-0.2067	-0.2676	-0.2611	-0.2745	-0.2674
178.	-0.1462															
242.			-0.1655													
145.			-0.1567													
277.			-0.1345													
	-0.1478															
245.	-0.1510															
177.			-0.1142													
243.			-0.1208													
46.			-0.1109													
276.			-0.1114													
142.			-0.1185													
143.	-0.1328 $-0.1242$		-0.1133													-0.1257
170.	-0.1242	-0.1092	-0.1123	-0.1200	-0.1172	-0.1070	-0.1100	-0.1100	-0.1101	-0.1107	-0.1197	-0.1140	-0.1201	-0.1107	-0.1200	-0.1211

Table IX. Continued

Run	CP109	CP110	CP111	CP112	CP113	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135
278	-0.2823	-0.1517	-0.1784	-0.0760	-0.0728	0.0365	0.0376	-0.1341	-0.0975	-0 2199	-0 1947	-0 2287	-0 2156	-0.2561	-0.2730	-0.2460
178.	-0.2023					0.0116									-0.1815	
242.	-0.2066					0.0133									-0.1737	
145.	-0.1953	-0.1842	-0.1590	-0.1147	-0.0680	-0.0010									-0.1632	
277.	-0.1690	-0.1546	-0.1572	-0.1324	-0.1176	-0.0630	-0.0319	-0.1542	-0.1418	-0.1428	-0.1292	-0.1421	-0.1345	-0.1478	-0.1428	-0.1499
44.	-0.1529	-0.1594	-0.1485	-0.1296	-0.1074	-0.0726	-0.0385	-0.1510	-0.1373	-0.1370	-0.1286	-0.1346	-0.1300	-0.1362	-0.1280	-0.1422
245.	-0.1487	-0.1598	-0.1470	-0.1318	-0.1076	-0.0707	-0.0379	-0.1519	-0.1373	-0.1343	-0.1285	-0.1326	-0.1296	-0.1334	-0.1266	-0.1403
177.	-0.1421	-0.1369	-0.1397	-0.1220	-0.1110	-0.0687	-0.0468	-0.1381	-0.1231	-0.1268	-0.1118	-0.1247	-0.1154	-0.1279	-0.1197	-0.1304
243.															-0.1250	
46.	-0.1349															
	-0.1342															
	-0.1401															
	-0.1351															
176.	-0.1325	-0.1268	-0.1315	-0.1180	-0.1134	-0.0815	-0.0653	-0.1309	-0.1158	-0.1191	-0.1073	-0.1176	-0.1119	-0.1226	-0.1176	-0.1253
Run	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144	CP145	CP146	CP147	CP148	CP149	CP150	CP151
278.	-0.2132	-0.2865	-0.1814	-0.1790	-0.0716	-0.0386	-0.1591	-0.1920	-0.2122	-0.2089	-0.2003	-0.2443	-0.1795	-0.2065	-0.2160	-0.2516
178.	-0.1788	-0.2076	-0.1881	-0.1938	-0.1497	-0.1090	-0.1496	-0.1611	-0.1644	-0.1711	-0.1618	-0.1794	-0.1623	-0.1810	-0.1871	-0.2075
242.	-0.1824	-0.2046	-0.1938	-0.1935	-0.1496	-0.1001	-0.1557	-0.1658	-0.1655	-0.1748	-0.1636	-0.1780	-0.1724	-0.1853	-0.1886	-0.2055
145.	-0.1798															
277.	0.1	0.2020	0												-0.1489	
44.	0.2.0	0.2000													-0.1501	
	-0.1457															
177.	-0.1285															
243.	-0.1389															
46.	-0.1355														-0.1372	
	The state of the s								() 1110		() 11()/	() 1 () ()	() 11()()			
276.	-0.1234	0.2002	0	0.200		0000										
142.	-0.1258	-0.1374	-0.1305	-0.1397	-0.1352	-0.1356	-0.1085	-0.1143	-0.1158	-0.1200	-0.1156	-0.1241	-0.1193	-0.1239	-0.1252	-0.1371
142. 143.	0.7	-0.1374 -0.1345	-0.1305 -0.1352	-0.1397 -0.1417	-0.1352 -0.1392	-0.1356 -0.1359	-0.1085 -0.1137	-0.1143 -0.1179	-0.1158 -0.1165	-0.1200 -0.1223	-0.1156 -0.1166	-0.1241 -0.1230	-0.1193 -0.1212	-0.1239 -0.1279	-0.1252 -0.1292	-0.1371 -0.1369

Table IX. Continued

Run	CP152	CP153	CP154	CP155	CP156	CP157	CP158	CP159	CP161	CP162	CP163	CP164	CP165	CP166	CP167	CP168	
278.	-0.1561	-0.1480	-0.0089	-0.2286	-0.1912	-0.2264	-0.2939	-0.0887	0.0029	0.1586	0.1095	0.2022	0.1635	0.2490	0 2202	0.3266	
178.	-0.1847	-0.1693	-0.0929	-0.1687	-0.1594	-0.1760	-0.2035	-0.1535	-0.0474	0.0562	0.0965	0.1664	0.1842	0.2292	0.2405	0.3200 $0.2858$	
242.	-0.1828	-0.1574	-0.0836	-0.1672	-0.1641	-0.1777	-0.1962	-0.1506	-0.0385	0.0570	0.1014	0.1602	0.1839	0.2252	0.2409 $0.2390$	0.2807	
145.	-0.1930	-0.1631	-0.1058	-0.1611	-0.1612	-0.1687	-0.1875	-0.1632	-0.0449	0.0336	0.1004	0.1503	0.1869	0.2170		0.2721	
277.	-0.1612	-0.1692	-0.1364	-0.1380	-0.1307	-0.1456	-0.1551	-0.1620	-0.1268	-0.0664	-0.0319	0.0301	0.0648		0.1461	0.1813	
44.	-0.1614	-0.1564	-0.1352	-0.1301	-0.1311	-0.1392	-0.1418	-0.1610	-0.1146	-0.0757	-0.0326	0.0167	0.0606		0.1372	0.1664	
245.	-0.1625	-0.1546	-0.1333	-0.1302	-0.1317	-0.1381	-0.1403	-0.1602	-0.1141	-0.0787	-0.0302	0.0139	0.0602	0.0989		0.1666	
177.	-0.1411	-0.1495	-0.1266	-0.1205	-0.1141	-0.1278	-0.1296	-0.1464	-0.1230	-0.0772	-0.0484	0.0043	0.0383	0.0901	0.1189	0.1531	
243.	-0.1530	-0.1518	-0.1349	-0.1245	-0.1253	-0.1324	-0.1357	-0.1543	-0.1232	-0.0887	-0.0518	-0.0080	0.0342	0.0762	0.1127	0.1445	
46.	-0.1517	-0.1431	-0.1298	-0.1205	-0.1206	-0.1276	-0.1232	-0.1533	-0.1174	-0.0925	-0.0522	-0.0148	0.0298	0.0686	0.1126	0.1387	
	-0.1323	-0.1420	-0.1235	-0.1155	-0.1102	-0.1228	-0.1237	-0.1373	-0.1234	-0.0852	-0.0637	-0.0165	0.0111	0.0584	0.0876	0.1207	
142.	-0.1346	-0.1443	-0.1301	-0.1174	-0.1153	-0.1230	-0.1321	-0.1383	-0.1255	-0.0877	-0.0667	-0.0208	0.0102	0.0593	0.0874	0.1228	
143.	-0.1383	-0.1411	-0.1291	-0.1152	-0.1161	-0.1226	-0.1289	-0.1407	-0.1215	-0.0919	-0.0658	-0.0271	0.0103	0.0543	0.0877	0.1199	
176.	-0.1292	-0.1397	-0.1246	-0.1154	-0.1104	-0.1214	-0.1245	-0.1338	-0.1264	-0.0925	-0.0783	-0.0371	-0.0127	0.0313	0.0592	0.0919	
Run	CP169	CP170	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP184	
0=0																	
278.	0.3372	0.3414	0.3981	0.3486	0.3242	0.1040	0.1278	0.1714	0.1127	0.2599	0.2167	0.2383	0.2595	0.3342	0.3202	0.3644	
178.	0.2995	0.3249	0.3496	0.3246		-0.0139	0.0478	0.1120	0.1369	0.2058	0.2146	0.2422	0.2639			0.3363	
242.	0.2956	0.3241	0.3465	0.3276		-0.0083	0.0523	0.1137	0.1428	0.1999	0.2133	0.2430	0.2628	0.2933	0.3071	0.3351	
145.	0.2889	0.3190	0.3353	0.3251		-0.0403	0.0351	0.1023	0.1487	0.1859	0.2123	0.2419	0.2666		0.3081	0.3322	
277. 44.	0.1873	0.2066	0.2073	0.2003		-0.1023	-0.0658		0.0221	0.0881	0.1181	0.1562	0.1742			0.2103	
245.	0.1763 $0.1767$	0.1970 $0.1976$	0.1911	0.1923			-0.0697		0.0241	0.0692	0.1086	0.1496	0.1711	0.1836		0.1988	
177.	0.1767 $0.1585$	0.1970 $0.1780$	0.1921 $0.1746$	0.1979			-0.0719		0.0266	0.0656	0.1091	0.1521	0.1750			0.1987	
243.	0.1530	0.1700 $0.1708$	0.1740 $0.1687$	0.1842 $0.1786$			-0.0795		0.0007	0.0578	0.0905	0.1337	0.1528	0.1715		0.1834	
46.	0.1330 $0.1496$	0.1708	0.1676	0.1780 $0.1857$			-0.0836			0.0433	0.0833	0.1254	0.1512			0.1759	
276.	0.1490 $0.1264$	0.1739	0.1070	0.1667 $0.1584$			-0.0892 -0.0882			0.0321	0.0803	0.1261	0.1511		0.1690		
142.	0.1204 $0.1316$	0.1444	0.1442 $0.1480$	0.1554 $0.1552$			-0.0889			0.0285	0.0592	0.1014	0.1231		0.1417		
143.	0.1310 $0.1274$	0.1423	0.1450 $0.1454$	0.1532 $0.1581$			-0.0889			0.0302 $0.0220$	0.0620 $0.0600$	0.0973 $0.0972$	0.1210		0.1425		
	O. 121 I	0.1100	0.1101	0.1001	0.2100	0.1100	-0.0009	-0.0040	-0.0440	0.0220	0.0000	0.0972	0.1218	0.1354	11 14118	0.1469	
176	0.0987	0.1155	0.1213	0.1387				-0.0670								0 200	
176.	0.0987	0.1155	0.1213	0.1387			-0.0967	-0.0670		0.0046	0.0320	0.0708	0.0926		0.1133	0 200	

Table IX. Continued

Run	CP185	CP186	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202
278.	0.3288	0.3488	0.1965	0.3014	0.2950	0.3140	0.0373	0.1241	0.0733	0.1842	0.0950	0.2161	0.2646	0.3092	0.2279	0.3562
178.	0.3167		0.1931	0.2732	0.3119	0.3166	0.0815	0.1373	0.1319	0.1742	0.1623	0.2070	0.2238	0.2386	0.2178	0.2656
242.	0.3135	0.3134	0.1895	0.2699	0.3109	0.3219	0.0911	0.1417	0.1398	0.1782	0.1660	0.2073	0.2227	0.2401	0.2257	0.2596
145.	0.3233	0.3097	0.1902	0.2673	0.3136	0.3226	0.0949	0.1404	0.1537	0.1733	0.1871	0.2067	0.2102	0.2241	0.2327	0.2455
277.	0.1896	0.2304	0.0847	0.1768	0.2060	0.1925	0.0056	0.0702	0.0.00	0.1100	0.1130	0.1465	0.1583	0.1752	0.1654	0.1820
44.	0.1857	0.2243	0.0723	0.1681	0.1989	0.1925	0.0062	0.0586		0.0961	0.1175	0.1423	0.1465	0.1636	0.1656	0.1632
245.	0.1898	0.2238	0.0731	0.1671	0.2014	0.1955	0.0069	0.0573	0.0.01	0.0992	0.1230	0.1391	0.1396	0.1594	0.1659	0.1580
177.	0.1746	0.2187	0.0551	0.1514	0.1825	0.1777	-0.0101	0.0482		0.0876		0.1300	0.1385	0.1620	0.1581	0.1718
243.	0.1723	0.2105	0.0453	0.1460	0.1745	0.1752	-0.0142	0.0345	0.0509	0.0735	0.0939	0.1183	0.12	0.1486	0.1524 $0.1524$	0.1516 $0.1454$
46.	0.1743	0.2155	0.0406	0.1431	0.1801		-0.0129	0.0308	0.0505	0.0658	0.0976	0.1146	0.1179	0.1396 $0.1305$	0.1324 $0.1313$	0.1454 $0.1441$
276.	0.1488	0.1945	0.0281	0.1205	0.1469		-0.0250		0.0326	0.0614	0.0710	0.1004 $0.1021$	$0.1062 \\ 0.1233$	0.1303	0.1315 $0.1345$	0.1441 $0.1521$
142.	0.1471	0.1908	0.0227	0.1240			-0.0238 -0.0233		0.0298	0.0641	0.0664	0.1021 $0.0986$	0.1233 $0.1128$	0.1413 $0.1337$	0.1345 $0.1385$	0.1321 $0.1467$
143.	0.1492		0.0213 $0.0018$	0.1213 $0.0924$			-0.0233 $-0.0418$						0.1128		0.1048	0.1222
176.	0.1270	0.1780	0.0018	0.0924	0.1137	0.1303	-0.0416	0.0030	0.0102	0.0002	0.0403	0.0100	0.0000	0.1001	0.1040	0.1222
Run	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227	CP228	CP230	CP231	CP232
Run	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226					
Run 278.	CP203 0.2381		CP205 0.2905	CP212 0.1941	CP213 0.2219			CP220 0.4580		0.4461	0.5062	0.4183	0.5772	0.4931	0.5159	0.4594
					0.2219 0.1969		0.3226 0.2799	$0.4580 \\ 0.3580$	$0.3484 \\ 0.3567$	$0.4461 \\ 0.4263$	0.5062 0.4406	0.4183 0.4381	0.5772 0.4940	$0.4931 \\ 0.4734$	$0.5159 \\ 0.4592$	$0.4594 \\ 0.4281$
278.	0.2381	0.2634 0.2495 0.2461	0.2905 0.2866 0.2858	0.1941 0.1736 0.1729	0.2219 0.1969 0.1988	0.3454 0.2790 0.2863	0.3226 0.2799 0.2881	$\begin{array}{c} 0.4580 \\ 0.3580 \\ 0.3559 \end{array}$	0.3484 0.3567 0.3597	0.4461 0.4263 0.4209	0.5062 0.4406 0.4285	0.4183 0.4381 0.4383	0.5772 0.4940 0.4867	0.4931 0.4734 0.4760	0.5159 0.4592 0.4605	0.4594 $0.4281$ $0.4252$
278. 178. 242. 145.	0.2381 0.2431 0.2450 0.2492	0.2634 0.2495 0.2461 0.2454	0.2905 0.2866 0.2858 0.2840	0.1941 0.1736 0.1729 0.1696	0.2219 0.1969 0.1988 0.1932	0.3454 0.2790 0.2863 0.2708	0.3226 0.2799 0.2881 0.2757	0.4580 0.3580 0.3559 0.3342	0.3484 0.3567 0.3597 0.3644	0.4461 0.4263 0.4209 0.4214	0.5062 0.4406 0.4285 0.4173	0.4183 0.4381 0.4383 0.4462	0.5772 0.4940 0.4867 0.4654	0.4931 0.4734 0.4760 0.4809	0.5159 0.4592 0.4605 0.4562	0.4594 0.4281 0.4252 0.4286
278. 178. 242. 145. 277.	0.2381 0.2431 0.2450 0.2492 0.1537	0.2634 0.2495 0.2461 0.2454 0.1563	0.2905 0.2866 0.2858 0.2840 0.2051	0.1941 0.1736 0.1729 0.1696 0.0795	0.2219 0.1969 0.1988 0.1932 0.0881	0.3454 0.2790 0.2863 0.2708 0.1843	0.3226 0.2799 0.2881 0.2757 0.1867	0.4580 0.3580 0.3559 0.3342 0.2224	0.3484 0.3567 0.3597 0.3644 0.2471	0.4461 0.4263 0.4209 0.4214 0.3296	0.5062 0.4406 0.4285 0.4173 0.3333	0.4183 0.4381 0.4383 0.4462 0.3392	0.5772 0.4940 0.4867 0.4654 0.3753	0.4931 0.4734 0.4760 0.4809 0.3688	0.5159 0.4592 0.4605 0.4562 0.3514	0.4594 0.4281 0.4252 0.4286 0.3276
278. 178. 242. 145. 277. 44.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803	0.4580 0.3580 0.3559 0.3342 0.2224 0.2029	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261
278. 178. 242. 145. 277. 44. 245.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755	0.4580 0.3580 0.3559 0.3342 0.2224 0.2029 0.2027	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261 0.3272
278. 178. 242. 145. 277. 44. 245. 177.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622	0.4580 0.3580 0.3559 0.3342 0.2224 0.2029 0.2027 0.2012	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3379	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261 0.3272 0.2986
278. 178. 242. 145. 277. 44. 245. 177. 243.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538 0.1438	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578 0.1430	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893 0.1815	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557 0.0466	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615 0.0555	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615 0.1485	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622 0.1554	0.4580 0.3580 0.3559 0.3342 0.2224 0.2029 0.2027 0.2012 0.1860	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261 0.2192	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005 0.2974	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074 0.2917	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190 0.3109	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3379 0.3223	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348 0.3321	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146 0.3141	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261 0.3272 0.2986 0.2974
278. 178. 242. 145. 277. 44. 245. 177. 243. 46.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538 0.1438	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578 0.1430 0.1487	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893 0.1815 0.1863	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557 0.0466 0.0378	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615 0.0555 0.0431	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615 0.1485 0.1422	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622 0.1554 0.1485	$\begin{array}{c} 0.4580 \\ 0.3580 \\ 0.3559 \\ 0.3342 \\ 0.2224 \\ 0.2029 \\ 0.2027 \\ 0.2012 \\ 0.1860 \\ 0.1794 \end{array}$	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261 0.2192 0.2240	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005 0.2974 0.2975	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074 0.2917 0.2895	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190 0.3109 0.3187	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3379 0.3223 0.3150	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348 0.3321 0.3317	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146 0.3141 0.3063	$\begin{array}{c} 0.4594 \\ 0.4281 \\ 0.4252 \\ 0.4286 \\ 0.3276 \\ 0.3261 \\ 0.3272 \\ 0.2986 \\ 0.2974 \\ 0.2939 \end{array}$
278. 178. 242. 145. 277. 44. 245. 177. 243. 46. 276.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538 0.1438 0.1483 0.1307	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578 0.1430 0.1487 0.1370	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893 0.1815 0.1863 0.1621	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557 0.0466 0.0378 0.0315	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615 0.0555 0.0431 0.0354	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615 0.1485 0.1422 0.1295	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622 0.1554 0.1485 0.1309	$\begin{array}{c} 0.4580 \\ 0.3580 \\ 0.3559 \\ 0.3342 \\ 0.2224 \\ 0.2029 \\ 0.2027 \\ 0.2012 \\ 0.1860 \\ 0.1794 \\ 0.1696 \end{array}$	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261 0.2192 0.2240 0.1940	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005 0.2974 0.2975 0.2683	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074 0.2917 0.2895 0.2753	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190 0.3109 0.3187 0.2859	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3379 0.3223 0.3150 0.3022	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348 0.3321 0.3317 0.3033	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146 0.3141 0.3063 0.2852	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261 0.3272 0.2986 0.2974
278. 178. 242. 145. 277. 44. 245. 177. 243. 46. 276. 142.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538 0.1438 0.1483 0.1307 0.1296	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578 0.1430 0.1487 0.1370 0.1320	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893 0.1815 0.1863 0.1621 0.1695	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557 0.0466 0.0378 0.0315 0.0282	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615 0.0555 0.0431 0.0354 0.0401	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615 0.1485 0.1422 0.1295 0.1343	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622 0.1554 0.1485 0.1309 0.1395	$\begin{array}{c} 0.4580 \\ 0.3580 \\ 0.3559 \\ 0.3342 \\ 0.2224 \\ 0.2029 \\ 0.2027 \\ 0.2012 \\ 0.1860 \\ 0.1794 \\ 0.1696 \\ 0.1817 \end{array}$	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261 0.2192 0.2240 0.1940 0.1940	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005 0.2974 0.2975 0.2683 0.2754	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074 0.2917 0.2895 0.2753 0.2747	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190 0.3109 0.3187	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3379 0.3223 0.3150	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348 0.3321 0.3317	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146 0.3141 0.3063	0.4594 0.4281 0.4252 0.4286 0.3276 0.3261 0.3272 0.2986 0.2974 0.2939 0.2718
278. 178. 242. 145. 277. 44. 245. 177. 243. 46. 276.	0.2381 0.2431 0.2450 0.2492 0.1537 0.1551 0.1548 0.1538 0.1438 0.1483 0.1307	0.2634 0.2495 0.2461 0.2454 0.1563 0.1529 0.1513 0.1578 0.1430 0.1487 0.1370	0.2905 0.2866 0.2858 0.2840 0.2051 0.2006 0.2015 0.1893 0.1815 0.1863 0.1621	0.1941 0.1736 0.1729 0.1696 0.0795 0.0694 0.0702 0.0557 0.0466 0.0378 0.0315	0.2219 0.1969 0.1988 0.1932 0.0881 0.0784 0.0796 0.0615 0.0555 0.0431 0.0354 0.0401	0.3454 0.2790 0.2863 0.2708 0.1843 0.1724 0.1699 0.1615 0.1485 0.1422 0.1295	0.3226 0.2799 0.2881 0.2757 0.1867 0.1803 0.1755 0.1622 0.1554 0.1485 0.1309 0.1395 0.1376	$\begin{array}{c} 0.4580 \\ 0.3580 \\ 0.3559 \\ 0.3342 \\ 0.2224 \\ 0.2029 \\ 0.2027 \\ 0.2012 \\ 0.1860 \\ 0.1794 \\ 0.1696 \end{array}$	0.3484 0.3567 0.3597 0.3644 0.2471 0.2441 0.2455 0.2261 0.2192 0.2240 0.1940 0.1940 0.1997	0.4461 0.4263 0.4209 0.4214 0.3296 0.3239 0.3229 0.3005 0.2974 0.2975 0.2683 0.2754 0.2766	0.5062 0.4406 0.4285 0.4173 0.3333 0.3176 0.3151 0.3074 0.2917 0.2895 0.2753 0.2747 0.2707	0.4183 0.4381 0.4383 0.4462 0.3392 0.3428 0.3412 0.3190 0.3109 0.3187 0.2859 0.2788	0.5772 0.4940 0.4867 0.4654 0.3753 0.3541 0.3487 0.3223 0.3150 0.3022 0.3086 0.3016	0.4931 0.4734 0.4760 0.4809 0.3688 0.3608 0.3649 0.3348 0.3321 0.3317 0.3033 0.3013	0.5159 0.4592 0.4605 0.4562 0.3514 0.3390 0.3419 0.3146 0.3141 0.3063 0.2852 0.2947	$\begin{array}{c} 0.4594 \\ 0.4281 \\ 0.4252 \\ 0.4286 \\ 0.3276 \\ 0.3261 \\ 0.3272 \\ 0.2986 \\ 0.2974 \\ 0.2939 \\ 0.2718 \\ 0.2693 \end{array}$

Table IX. Continued

Run	CP233	CP245	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263	CP264	CP265	CP266	CP267
278.		-0.0438	0.1316	0.2439				-0.2388				0.0184	0.0512	0.0119	0.0517	0.0389
178.		-0.0124	0.1420	0.2205				-0.1561				0.0499	0.0759	0.0738	0.0930	0.0792
242.		-0.0075	0.1380	0.2153				-0.1654				0.0492	0.0730	0.0776	0.0898	0.0764
145.	0.4307		0.1388	0.2190				-0.1418				0.0557	0.0763	0.0863	0.0972	0.0831
277.	0.3327		0.0663	0.1664				-0.0718			-0.0170	0.0013	0.0319	0.0435	0.0731	0.0745
44.		-0.0742	0.0549	0.1629				-0.0633				0.0027	0.0283	0.0467	0.0697	0.0729
245.		-0.0748	0.0544	0.1635				-0.0632				0.0030	0.0272	0.0452	0.0698	0.0729
177.		-0.0805	0.0450	0.1543			-0.0331		0.0134			-0.0034	0.0260	0.0404	0.0712	0.0759
243.		-0.0814	0.0363	0.1497							-0.0151		0.0182	0.0375	0.0618	0.0690
46.		-0.0770	0.0314	0.1479							-0.0013		0.0183	0.0370	0.0640	0.0681
276. 142.		-0.0835 -0.0916	0.0245	0.1294			-0.0182		0.0147	0.0135		-0.0133	0.0146	0.0286	0.0583	0.0650
142.	0.2750 $0.2847$		0.0216 $0.0199$	0.1295 $0.1301$			-0.0391				-0.0007		0.0101	0.0284	0.0525	0.0675
143. 176.		-0.0912	0.0199 $0.0037$	0.1301 $0.1039$		-0.0929 -0.0354	0.0083	-0.0184 $0.0113$	0.0258	0.0049		-0.0141 -0.0236	0.0100	0.0299	0.0541	0.0656
170.	0.2000	-0.0912	0.0057	0.1059	0.1200	-0.0554	0.0083	0.0113	0.0258	0.0190	0.0306	-0.0236	0.0033	0.0176	0.0475	0.0572
D	CIDOCO	CDOGG	CDOTO	CDOFI	CDOTO	CIDARA	CDOF!	ODOFF	OD	OD	CD c=c	OD				
Run	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278	CP279	CP280	CP281	CP282	CP283
278.	0.0697	-0.0456	-0.0434	-0.1145	-0.1678	0.3233	-0.0881	0.4056	0.5443	0.4380	0.5583	0.5650	0.4871	0.4955	0.4912	0.3925
278. 178.	0.0697 0.0637	-0.0456 -0.0113	-0.0434 -0.0608	-0.1145 -0.1092	-0.1678 -0.1140	0.3233 0.1520	-0.0881 -0.0934	$0.4056 \\ 0.3606$	0.5443 0.4298	0.4380 0.4506	0.5583 0.5016	0.5650 0.5040	0.4871 0.4854	0.4955 0.4709	0.4912 0.4239	0.3925 0.3583
278. 178. 242.	0.0697 0.0637 0.0576	-0.0456 -0.0113 -0.0156	-0.0434 -0.0608 -0.0681	-0.1145 -0.1092 -0.1143	-0.1678 -0.1140 -0.1184	0.3233 0.1520 0.1150	-0.0881 -0.0934 -0.1018	0.4056 0.3606 0.3506	0.5443 0.4298 0.4160	0.4380 0.4506 0.4452	0.5583 0.5016 0.4918	0.5650 0.5040 0.4964	0.4871 0.4854 0.4766	0.4955 0.4709 0.4582	0.4912 0.4239 0.4089	0.3925 0.3583 0.3518
278. 178. 242. 145.	0.0697 0.0637 0.0576 0.0507	-0.0456 -0.0113 -0.0156 -0.0074	-0.0434 -0.0608 -0.0681 -0.0780	-0.1145 -0.1092 -0.1143 -0.1167	-0.1678 -0.1140 -0.1184 -0.1031	0.3233 0.1520 0.1150 0.0743	-0.0881 -0.0934 -0.1018 -0.1074	0.4056 0.3606 0.3506 0.3481	0.5443 0.4298 0.4160 0.3915	0.4380 0.4506 0.4452 0.4555	0.5583 0.5016 0.4918 0.4728	0.5650 0.5040 0.4964 0.4719	0.4871 0.4854 0.4766 0.4896	0.4955 0.4709 0.4582 0.4560	0.4912 0.4239 0.4089 0.3936	0.3925 0.3583 0.3518 0.3429
278. 178. 242. 145. 277.	0.0697 0.0637 0.0576 0.0507 0.0736	-0.0456 -0.0113 -0.0156 -0.0074 0.0213	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806	0.3233 0.1520 0.1150 0.0743 0.0756	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710	0.4056 0.3606 0.3506 0.3481 0.2542	0.5443 0.4298 0.4160 0.3915 0.2943	0.4380 0.4506 0.4452 0.4555 0.3307	0.5583 0.5016 0.4918 0.4728 0.3580	0.5650 0.5040 0.4964 0.4719 0.3526	0.4871 0.4854 0.4766 0.4896 0.3485	0.4955 0.4709 0.4582 0.4560 0.3340	0.4912 0.4239 0.4089 0.3936 0.2930	0.3925 0.3583 0.3518 0.3429 0.2568
278. 178. 242. 145. 277. 44.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458
278. 178. 242. 145. 277. 44. 245.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465
278. 178. 242. 145. 277. 44.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375 0.0102	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209 0.0472	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788 -0.0230	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385 0.2269	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271
278. 178. 242. 145. 277. 44. 245. 177.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618 0.0827	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333 -0.0636	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683 -0.0270	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600 0.2444	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970 0.3013	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109 0.3052	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000 0.2952	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083 0.3039	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950 0.2923	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606 0.2450	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271 0.2118
278. 178. 242. 145. 277. 44. 245. 177. 243.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618 0.0827 0.0668	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508 0.0388	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375 0.0102 -0.0181 -0.0164	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333 -0.0636	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683 -0.0270 -0.0572	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209 0.0472 0.0258	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788 -0.0230 -0.0608	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385 0.2269 0.2214	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271 0.2118
278. 178. 242. 145. 277. 44. 245. 177. 243. 46.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618 0.0827 0.0668 0.0617	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508 0.0388 0.0424	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375 0.0102 -0.0181 -0.0164 0.0181	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333 -0.0636 -0.0565	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683 -0.0270 -0.0572 -0.0383	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209 0.0472 0.0258 -0.0031	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788 -0.0230 -0.0608 -0.0540	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385 0.2269 0.2214 0.2131	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600 0.2444 0.2228	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970 0.3013 0.2995	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109 0.3052 0.2972	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000 0.2952 0.2868	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083 0.3039 0.3166	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950 0.2923 0.2857	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606 0.2450 0.2360	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271 0.2118 0.2197
278. 178. 242. 145. 277. 44. 245. 177. 243. 46. 276.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618 0.0827 0.0668 0.0617 0.0743	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508 0.0388 0.0424 0.0513	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375 0.0102 -0.0181 -0.0164 0.0181	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333 -0.0636 -0.0565 -0.0215 -0.0275	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683 -0.0270 -0.0572 -0.0383 -0.0167	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209 0.0472 0.0258 -0.0031 0.0225	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0788 -0.0230 -0.0608 -0.0540 -0.0145	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385 0.2269 0.2214 0.2131 0.1973	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600 0.2444 0.2228 0.2239	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970 0.3013 0.2995 0.2616	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109 0.3052 0.2972 0.2740	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000 0.2952 0.2868 0.2651	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083 0.3039 0.3166 0.2724	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950 0.2923 0.2857 0.2549	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606 0.2450 0.2360 0.2271	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271 0.2118 0.2197 0.1990
278. 178. 242. 145. 277. 44. 245. 177. 243. 46. 276. 142.	0.0697 0.0637 0.0576 0.0507 0.0736 0.0639 0.0618 0.0827 0.0668 0.0617 0.0743 0.0801	-0.0456 -0.0113 -0.0156 -0.0074 0.0213 0.0272 0.0291 0.0508 0.0388 0.0424 0.0513 0.0500	-0.0434 -0.0608 -0.0681 -0.0780 -0.0310 -0.0355 -0.0375 0.0102 -0.0181 -0.0164 0.0181 0.0167	-0.1145 -0.1092 -0.1143 -0.1167 -0.0812 -0.0800 -0.0810 -0.0333 -0.0636 -0.0565 -0.0215 -0.0275	-0.1678 -0.1140 -0.1184 -0.1031 -0.0806 -0.0704 -0.0683 -0.0270 -0.0572 -0.0383 -0.0167 -0.0411	0.3233 0.1520 0.1150 0.0743 0.0756 0.0294 0.0209 0.0472 0.0258 -0.0031 0.0225 0.0725	-0.0881 -0.0934 -0.1018 -0.1074 -0.0710 -0.0763 -0.0230 -0.0608 -0.0540 -0.0145 -0.0283	0.4056 0.3606 0.3506 0.3481 0.2542 0.2411 0.2385 0.2269 0.2214 0.2131 0.1973 0.2059	0.5443 0.4298 0.4160 0.3915 0.2943 0.2634 0.2571 0.2600 0.2444 0.2228 0.2239 0.2399	0.4380 0.4506 0.4452 0.4555 0.3307 0.3280 0.3277 0.2970 0.3013 0.2995 0.2616 0.2589	0.5583 0.5016 0.4918 0.4728 0.3580 0.3338 0.3261 0.3109 0.3052 0.2972 0.2740 0.2844	0.5650 0.5040 0.4964 0.4719 0.3526 0.3253 0.3174 0.3000 0.2952 0.2868 0.2651 0.2838 0.2698	0.4871 0.4854 0.4766 0.4896 0.3485 0.3368 0.3435 0.3083 0.3039 0.3166 0.2724 0.2701	0.4955 0.4709 0.4582 0.4560 0.3340 0.3206 0.3298 0.2950 0.2923 0.2857 0.2549 0.2623	0.4912 0.4239 0.4089 0.3936 0.2930 0.2764 0.2829 0.2606 0.2450 0.2360 0.2271 0.2254	0.3925 0.3583 0.3518 0.3429 0.2568 0.2458 0.2465 0.2271 0.2118 0.2197 0.1990 0.2000

Table IX. Concluded

Run	CP284
278. 178.	$0.5124 \\ 0.4359$
242. 145.	0.4214 $0.4117$
277. 44.	0.2997 $0.2765$
245. 177.	0.2773 $0.2639$
243.	0.2482
46. 276.	0.2495 0.2310
142. 143.	0.2403 0.2327
176.	0.2094

Table X. Pressure Coefficients for l/h=11.7 Cavity With Boundary-Layer Transition Strip

	Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
	97.	0.31	1.1	1061.4	1134.8	71.6	80.8	0.7196									
	296.	0.61	1.6	776.2	994.6	199.5	92.6	0.7180	-0.3176 $-0.3312$	-0.2698	-0.2212	-0.2000	-0.1556	-0.1511	-0.1011	-0.1223	-0.0783
	196.	0.81	1.5	532.7	817.9	242.9	98.4	1.0784	-0.4439	-0.3215	-0.2810	-0.2549	-0.1996	-0.1566	-0.1086	-0.0983	-0.0713
	295.	0.86	1.6	520.9	841.4	267.7	101.1		-0.4865								-0.0640
-	195. 94.	$0.91 \\ 0.95$	1.7 1.8	$497.6 \\ 515.2$	847.5 $917.0$	$286.2 \\ 322.9$	98.4 106.8		-0.3781 -0.2770								-0.0395 $0.0292$
	01.	0.00	1.0	010.2	311.0	022.0	100.0	1.2030	-0.2110	-0.3110	-0.0002	~0.3013	-0.3303	-0.4109	-0.3114	-0.1407	0.0292
	Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CD91	CDaa	CD24	CDar	CDac	CD27
	itun	OIII	01 12	01 15	01 14	O1 15	C1 10	01 17	CF 16	CF 19	CF 20	CP21	CP33	CP34	CP35	CP36	CP37
		-0.1047	-0.0765	-0.0921	-0.0612	-0.0842	-0.0576	-0.0799	-0.0419	-0.0740	-0.0367	-0.0953	-0.0885	-0.0698	-0.0983	-0.0591	-0.0937
		-0.0811	-0.0662	-0.0719	-0.0522	-0.0527	-0.0429	-0.0498	-0.0344	-0.0489	-0.0373	-0.0543	-0.0558	-0.0566	-0.0774	-0.0554	
		-0.0715 -0.0603	-0.0572 -0.0476	-0.0558	-0.0422	-0.0401	-0.0312	-0.0361	-0.0237 -0.0179	-0.0348	-0.0268	-0.0384	-0.0420	-0.0433	-0.0614	-0.0470	-0.0686
		-0.0408	-0.0315	-0.0369	-0.0236	-0.0211	-0.0230	-0.0202	-0.00179	-0.0209	-0.0310	-0.0197	-0.0337	-0.0393	-0.0300	-0.0400	-0.0598 -0.0531
	94.	0.0393	0.0389	0.0196	0.0138	0.0068	0.0070	-0.0001								-0.0333	
	Run	CP38	CP39	CP40	CP41	CP42	CP43	CP44	CP45	CP46	CP47	CP48	CP49	CP50	CP65	CP66	CP67
	97.	-0.0467	-0.0170	0.0342	-0.0872	-0.0373	0.0223	-0.1370	-0.1621	-0.1491	-0.1622	-0.1382	-0.1825	-0.1295	-0.1725	-0.1587	-0.1461
		-0.0460	0.0024		-0.0557		0.0560	-0.1301	-0.1409	-0.1320	-0.1373	-0.1325	-0.1477	-0.1275	-0.1474	-0.1391	-0.1350
		-0.0497	-0.0044		-0.0458				-0.1239								-0.1254
		-0.0519 -0.0429	-0.0115 -0.0097		-0.0399 -0.0300		0.0673	-0.1023	-0.1125 -0.0912	-0.0946	-0.0978	-0.1088	-0.1114	-0.1024	-0.1206	-0.1057	-0.1160
		-0.0423	-0.0165		-0.0300				-0.0912 $-0.0833$								
					0.02.20		0.000	0.0.20	0.0000	0.0000	0.0011	0.0100	0.0021	0.0110	0.0022	0.0101	0.0000
	Run	CP68	CP80	CP84	CP85	CP97	CP98	CP99	CP100	CP101	CP102	CP103	CP104	CP105	CP106	CP107	CP108
	07	0.0550	0.1400	0.1507	0.1600	0.1606	0 1201	0.1505	0.1500	0.1005	0.1401	0.1000	0.1.100	0.1070	0.1000	0.1510	0.1050
6	97. 296.	$0.0550 \\ 0.0608$	-0.1408 -0.1341	-0.1307	-0.1090	-0.1090	-0.1381	-0.1505	-0.1529 -0.1361	-0.1035	-0.1421	-0.1096	0.1493	0.1876	0.1602	0.1712	0.1352
	196.	0.0427	-0.1191	-0.1219	-0.1286	-0.1248	-0.1185	-0.1276	-0.1197	-0.1279	-0.1301	-0.1269	-0.1418	-0.1304	-0.1403	-0.1311	-0.1271
	295.	0.0245	-0.1129	-0.1089	-0.1171	-0.1130	-0.1119	-0.1224	-0.1033	-0.1204	-0.1114	-0.1137	-0.1140	-0.1193	-0.1086	-0.1180	-0.1056
]	195.	0.0165	-0.0905	-0.0895	-0.0954	-0.0904	-0.0898	-0.0977	-0.0874	-0.0967	-0.0895	-0.0937	-0.0912	-0.0976	-0.0901	-0.0968	-0.0876
	94.	0.0081	-0.0838	-0.0809	-0.0879	-0.0829	-0.0826	-0.0927	-0.0786	-0.0909	-0.0830	-0.0855	-0.0845	-0.0897	-0.0797	-0.0874	-0.0781

Table X. Continued

Run	CP109	CP110	CP111	CP112	CP113	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135
296. 196. 295. 195.	-0.0887 -0.0707 -0.0890 -0.0850 -0.0743 -0.0687	-0.0396 -0.0354	$\begin{array}{c} 0.0314 \\ 0.0540 \\ 0.0358 \\ 0.0240 \\ 0.0151 \\ 0.0084 \end{array}$	0.0713 0.0922 0.0894 0.0807 0.0721 0.0617	$\begin{array}{c} 0.0551 \\ 0.1038 \\ 0.1149 \\ 0.1160 \\ 0.1125 \\ 0.1032 \end{array}$	$\begin{array}{c} 0.1114 \\ 0.1412 \\ 0.1579 \\ 0.1622 \\ 0.1624 \\ 0.1563 \end{array}$	0.1059 0.1545 0.1798 0.1883 0.1931 0.1896	0.1000 0.1076 0.0654 0.0372 0.0223 0.0085	$\begin{array}{c} 0.1695 \\ 0.1012 \\ 0.0677 \\ 0.0426 \end{array}$	-0.1490 -0.1315 -0.1258 -0.1007	-0.1381 -0.1217 -0.1135 -0.0913	-0.1491 -0.1323 -0.1243 -0.1013	-0.1414 -0.1262 -0.1170 -0.0967	$\begin{array}{c} -0.1533 \\ -0.1356 \\ -0.1234 \\ -0.1023 \end{array}$	-0.1653 -0.1456 -0.1276 -0.1095 -0.0932 -0.0828	-0.1633 -0.1397 -0.1267 -0.1027
Run	CP136	CP137	CP138	CP139	CP140	CP141	CP142	CP143	CP144	CP145	CP146	CP147	CP148	CP149	CP150	CP151
296. 196. 295. 195.	-0.1681 -0.1617 -0.1403 -0.1308 -0.1040 -0.0955	-0.1484 -0.1422 -0.1301 -0.1082	-0.0573 -0.0904 -0.1010 -0.0862	-0.0517 -0.0534	0.1523 $0.0749$ $0.0356$ $0.0111$	0.1992 $0.1516$ $0.1164$ $0.0773$	-0.1348 -0.1218 -0.1196 -0.0945	-0.1448 -0.1308 -0.1270 -0.1016	-0.1411 -0.1280 -0.1194 -0.0992	-0.1555 -0.1397 -0.1351 -0.1097	-0.1402 -0.1246 -0.1139 -0.0941	$\begin{array}{c} -0.1552 \\ -0.1355 \\ -0.1249 \\ -0.1017 \end{array}$	-0.1522 -0.1307 -0.1225 -0.0959	-0.1697 -0.1460 -0.1398 -0.1094	-0.1319 -0.1370 -0.1304 -0.1249 -0.1010 -0.0930	-0.0689 -0.0976 -0.1014 -0.0882
Run	CP152	CP153	CP154	CP155	CP156	CP157	CP158	CP159	CP161	CP162	CP163	CP164	CP165	CP166	CP167	CP168
295. 195.	0.0802 0.0557 -0.0161 -0.0421 -0.0453 -0.0503	0.1339 0.1469 0.0680 0.0374 0.0109 -0.0036	0.2145 $0.1635$ $0.1313$ $0.0922$	-0.1610 -0.1451 -0.1297 -0.1224 -0.0997 -0.0924	-0.1398 -0.1245 -0.1192 -0.0961	-0.1551 -0.1350 -0.1270 -0.1018	-0.1378 -0.1315 -0.1145 -0.0979	0.1505 $0.0714$ $0.0300$ $0.0092$	$\begin{array}{c} 0.1498 \\ 0.2118 \\ 0.2047 \\ 0.1866 \\ 0.1455 \\ 0.1137 \end{array}$	0.1859 0.2245 0.2464 0.2393 0.2124 0.1804	0.1499 0.2120 0.2537 0.2687 0.2539 0.2308	$\begin{array}{c} 0.1858 \\ 0.2314 \\ 0.2770 \\ 0.2913 \\ 0.2911 \\ 0.2791 \end{array}$	$\begin{array}{c} 0.1781 \\ 0.2457 \\ 0.2945 \\ 0.3158 \\ 0.3183 \\ 0.3107 \end{array}$	$\begin{array}{c} 0.2530 \\ 0.2977 \\ 0.3413 \\ 0.3529 \\ 0.3562 \\ 0.3482 \end{array}$	0.2790 0.3503 0.3878 0.3980 0.3919 0.3807	0.3738 0.4323 0.4527 0.4497 0.4352 0.4154
Run	CP169	CP170	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180	CP181	CP182	CP183	CP184
97. 296. 196. 295. 195. 94.	$\begin{array}{c} 0.3910 \\ 0.4612 \\ 0.4749 \\ 0.4679 \\ 0.4495 \\ 0.4277 \end{array}$	0.4369 0.5025 0.5094 0.5054 0.4785 0.4558	0.4513 0.5160 0.5225 0.5090 0.4864 0.4616	0.4499 0.5187 0.5248 0.5205 0.4907 0.4627	0.3908 0.4642 0.4868 0.4907 0.4720 0.4560	0.1942 0.2268 0.2200 0.1953 0.1615 0.1276	0.1662 0.2164 0.2426 0.2383 0.2167 0.1864	0.1745 0.2207 0.2612 0.2706 0.2638 0.2428	0.1469 0.2207 0.2695 0.2923 0.2928 0.2831	0.2217 0.2634 0.3093 0.3206 0.3301 0.3237	$\begin{array}{c} 0.2324 \\ 0.2981 \\ 0.3436 \\ 0.3586 \\ 0.3618 \\ 0.3562 \end{array}$	$\begin{array}{c} 0.3036 \\ 0.3694 \\ 0.4058 \\ 0.4191 \\ 0.4081 \\ 0.3984 \end{array}$	$\begin{array}{c} 0.3504 \\ 0.4268 \\ 0.4503 \\ 0.4537 \\ 0.4374 \\ 0.4217 \end{array}$	$\begin{array}{c} 0.4048 \\ 0.4591 \\ 0.4753 \\ 0.4731 \\ 0.4579 \\ 0.4388 \end{array}$	0.4037 0.4739 0.4888 0.4881 0.4708 0.4508	$\begin{array}{c} 0.4396 \\ 0.4976 \\ 0.5125 \\ 0.5108 \\ 0.4908 \\ 0.4702 \end{array}$

Table X. Continued

Run	CP185	CP186	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198	CP199	CP200	CP201	CP202
97. 296. 196. 295. 195. 94.	0.4126 0.4873 0.5068 0.5073 0.4852 0.4620	$\begin{array}{c} 0.4000 \\ 0.4542 \\ 0.4812 \\ 0.4845 \\ 0.4700 \\ 0.4531 \end{array}$	0.2050 0.2563 0.3028 0.3246 0.3300 0.3264	0.3551 0.4301 0.4543 0.4538 0.4383 0.4204	0.4285 0.5092 0.5113 0.5114 0.4808 0.4625	0.4342 0.5175 0.5276 0.5323 0.4976 0.4740	0.1143 0.1777 0.2122 0.2262 0.2328 0.2311	0.1822 0.2273 0.2669 0.2838 0.2879 0.2868	$\begin{array}{c} 0.1604 \\ 0.2336 \\ 0.2781 \\ 0.3019 \\ 0.3045 \\ 0.3014 \end{array}$	0.2165 0.2686 0.3122 0.3280 0.3333 0.3290	0.1977 0.2809 0.3294 0.3545 0.3528 0.3487	0.2621 0.3229 0.3678 0.3820 0.3820 0.3736		0.3215 0.3815 0.4202 0.4215 0.4207 0.4040	0.3943 $0.4296$ $0.4354$ $0.4267$	0.3685 0.4240 0.4473 0.4375 0.4262 0.4119
Run	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227	CP228	CP230	CP231	CP232
296. 196. 295. 195.	0.3203 0.4068 0.4285 0.4387 0.4197 0.4111	0.3388 0.4076 0.4406 0.4487 0.4280 0.4190	$\begin{array}{c} 0.3275 \\ 0.4219 \\ 0.4627 \\ 0.4649 \\ 0.4554 \\ 0.4499 \end{array}$	0.2086 0.2601 0.3073 0.3261 0.3312 0.3245	0.1959 0.2589 0.3107 0.3267 0.3368 0.3299	$\begin{array}{c} 0.3741 \\ 0.4426 \\ 0.4716 \\ 0.4747 \\ 0.4594 \\ 0.4384 \end{array}$	0.3622 0.4456 0.4713 0.4718 0.4545 0.4323	$\begin{array}{c} 0.4628 \\ 0.5128 \\ 0.5238 \\ 0.5088 \\ 0.4843 \\ 0.4623 \end{array}$	0.4383 0.5225 0.5375 0.5383 0.5090 0.4889	$\begin{array}{c} 0.4765 \\ 0.5673 \\ 0.5908 \\ 0.5932 \\ 0.5755 \\ 0.5617 \end{array}$	0.5818 0.6011 0.5993 0.5803	0.5230 0.6051 0.6206 0.6252 0.5990 0.5811	$\begin{array}{c} 0.6393 \\ 0.6411 \\ 0.6273 \\ 0.6051 \end{array}$	0.5677 0.6493 0.6503 0.6487 0.6183 0.5961	0.5511 0.6342 0.6372 0.6293 0.6064 0.5860	$\begin{array}{c} 0.6061 \\ 0.6165 \\ 0.6162 \\ 0.5911 \end{array}$
Run	CP233	CP245	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263	CP264	CP265	CP266	CP267
97. 296. 196. 295. 195. 94.	0.4825 0.5777 0.5979 0.6006 0.5812 0.5660	0.0764 0.1264 0.1498 0.1608 0.1597 0.1523	0.1816 0.2298 0.2691 0.2819 0.2865 0.2843	0.3076 0.3814 0.4167 0.4208 0.4141 0.4005	0.3659 0.4081 0.4158 0.4180	-0.7649 -0.7369 -0.7105 -0.6977 -0.6369 -0.6392	-0.5425 -0.5699 -0.5456 -0.4642	-0.3237 -0.3802 -0.3763 -0.3146	-0.1926 -0.2306 -0.2432 -0.1960	-0.1476 -0.1695 -0.1719 -0.1313	-0.1049 -0.1184 -0.1123 -0.0771	0.0783 0.1134 0.1297 0.1440	0.0906 0.1288 0.1461 0.1638	0.1704	$0.1649 \\ 0.1853$	0.0302 0.0842 0.1310 0.1474 0.1720 0.1885
Run	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278	CP279	CP280	CP281	CP282	CP283
97. 296. 196. 295. 195. 94.		$\begin{array}{c} -0.0010 \\ 0.0331 \\ 0.0476 \\ 0.0733 \end{array}$	-0.0898 -0.1024 -0.1049 -0.1036 -0.0690 -0.0503	-0.2054 -0.2549 -0.2683 -0.2332	-0.1986 -0.2526 -0.2521 -0.2219	$0.0903 \\ 0.1338$	-0.2491 -0.2615 -0.2253	0.4284 0.4983 0.5379 0.5433 0.5353 0.5188	$\begin{array}{c} 0.5403 \\ 0.5870 \\ 0.6107 \\ 0.6018 \\ 0.5923 \\ 0.5745 \end{array}$	$\begin{array}{c} 0.5410 \\ 0.6362 \\ 0.6474 \\ 0.6554 \\ 0.6173 \\ 0.6005 \end{array}$	0.6671 $0.6493$ $0.6106$	0.6710	0.5711 0.6790 0.6862 0.6658 0.6277 0.6038	0.5440 0.6649 0.6737 0.6564 0.6288 0.6121	0.5502 0.6270 0.6412 0.6403 0.6125 0.5900	$\begin{array}{c} 0.5418 \\ 0.5646 \\ 0.5642 \\ 0.5431 \end{array}$

Table X. Concluded

Run CP284

97. 0.5360
296. 0.5957
196. 0.5980
295. 0.5714
195. 0.5451
94. 0.5248

Table XI. Pressure Coefficients for l/h=11.7 Cavity With Front Blocks and Boundary-Layer Transition Strip

Run	$M_{\infty}$	$R_{\infty} \times 10^{-6}$	$p_{\infty}$	$p_{t\infty}$	$q_{\infty}$	$T_{t\infty}$	CP1	CP2	CP3	CP4	CP5	CP6	CP7	CP8	CP9	CP10
91. 90. 292.	0.29 0.60 0.95	1.0 1.6 1.7	1025.3 743.9 491.4	1087.0 946.0 876.2	60.4 185.1 309.0	67.2 76.6 102.3	0.9494	-0.3590 -0.3229 -0.2857	-0.2703	-0.2405	-0.2164	-0.1732	-0.1419	-0.1046	-0.0986	-0.0959 -0.0741 0.0125
Run	CP11	CP12	CP13	CP14	CP15	CP16	CP17	CP18	CP19	CP20	CP21	CP33	CP34	CP35	CP36	CP37
	-0.1142 -0.0754 0.0433	-0.0881 -0.0626 0.0440						-0.0568 -0.0282 0.0009		-0.0270	-0.0443	-0.0408	-0.0459	-0.0608		-0.0548
Run	CP38	CP39	CP40	CP41	CP42	CP43	CP47	CP67	CP68	CP107	CP108	CP109	CP110	CP111	CP112	CP113
90.	-0.0614 -0.0400 -0.0543	-0.0210 0.0096 -0.0313	0.0698	-0.0887 -0.0424 -0.0266	-0.0319	0.0710	-0.2583 -0.1812 -0.0740		0.0417	-0.1697	-0.2046 -0.1600 -0.0996	-0.1012	-0.0143	0.0300	$\begin{array}{c} 0.0231 \\ 0.0672 \\ 0.0442 \end{array}$	0.0113 0.0805 0.0908
Run	CP114	CP115	CP123	CP124	CP129	CP130	CP131	CP132	CP133	CP134	CP135	CP136	CP137	CP138	CP139	CP140
91. 90. 292.	0.0596 $0.1116$ $0.1421$	0.0699 $0.1300$ $0.1756$	0.0391 0.0547 -0.0253	0.1171	-0.1805	-0.1760	-0.1809	-0.2458 -0.1785 -0.0969	-0.1908	-0.1876	-0.1802	-0.1380	-0.0967		0.1082 0.0727 -0.0556	0.1994 $0.1644$ $0.0030$
Run	CP141	CP147	CP148	CP149	CP150	CP151	CP152	CP153	CP154	CP157	CP158	CP159	CP161	CP162	CP163	CP164
91. 90. 292.	0.1956 0.2133 0.0629	-0.2702 -0.1944 -0.1076	-0.1818	-0.2431 -0.1816 -0.1388	-0.1497	-0.0981	0.0419 0.0019 -0.0715		0.1820	-0.1933	-0.1969 -0.1524 -0.0942		0.1763 0.2310 0.1263	0.2005 0.2445 0.1753	0.1758 0.2351 0.2324	$\begin{array}{c} 0.2026 \\ 0.2527 \\ 0.2677 \end{array}$
Run	CP165	CP166	CP167	CP168	CP169	CP170	CP171	CP172	CP173	CP174	CP175	CP176	CP177	CP178	CP179	CP180
91. 90.	$0.2057 \\ 0.2702$	$0.2841 \\ 0.3272$	0.3366 0.3886	$0.4652 \\ 0.4927$	0.5093 0.5415	$0.5780 \\ 0.5923$	$0.5960 \\ 0.6120$	$0.5416 \\ 0.5538$	0.4466 0.4919	0.1989 0.2186	$0.1828 \\ 0.2273$	$0.1945 \\ 0.2392$	0.1798 0.2451	0.2526 0.2939	0.2851 0.3414	$0.3830 \\ 0.4230$

Table XI. Concluded

Run	CP181	CP182	CP183	CP184	CP185	CP186	CP188	CP189	CP190	CP191	CP193	CP194	CP195	CP196	CP197	CP198
91. 90. 292.	0.4621	$0.4745 \\ 0.4910 \\ 0.4362$	0.5170	0.5489	0.4928	0.4091 0.4575 0.4264	0.2323 0.2802 0.3029	0.4552 $0.4956$ $0.3945$	0.5395 0.5577 0.4825	0.5313	0.1016 0.1619 0.2149	0.1782 0.2187 0.2670	0.1791 0.2353 0.2854	0.2362 0.2757 0.2958	0.2380 0.2975 0.3266	0.3456
Run	CP199	CP200	CP201	CP202	CP203	CP204	CP205	CP212	CP213	CP216	CP217	CP220	CP221	CP225	CP226	CP227
90.	0.3760	0.3817 $0.4215$ $0.3315$	0.4351	0.4386	0.4106	0.3997	0.4135		0.3014		0.4620 0.5031 0.3866		0.5445 0.5796 0.5291	0.5972 0.6453 0.6282	0.6173 0.6496 0.6094	0.7230
Run	CP228	CP230	CP231	CP232	CP233	CP245	CP246	CP247	CP248	CP257	CP258	CP259	CP260	CP261	CP262	CP263
	0.7636 0.7789		0.7383 0.7544	0.6502 0.6730	0.5818 0.6404	0.0411		0.3779 0.4149	0.3433 0.4004	-0.8456 -0.6972	-0.5973 -0.5491		-0.1699 -0.1438	-0.1463 -0.0914	-0.1150 -0.0535	$0.0340 \\ 0.0972$
Run	CP264	CP265	CP266	CP267	CP268	CP269	CP270	CP271	CP272	CP273	CP274	CP275	CP276	CP277	CP278	CP279
91. 90. 292.	0.1080	0.1063	0.1140	0.1001	0.0751	-0.0016	-0.1059	-0.2162 -0.1954 -0.2529	-0.1804	0.1235	-0.1990 -0.1820 -0.2428	0.4694 $0.5346$ $0.4915$	$\begin{array}{c} 0.6565 \\ 0.6704 \\ 0.5529 \end{array}$	0.7640 $0.7955$ $0.7337$	0.8626 $0.8702$ $0.7956$	0.8890
Run	CP280	CP281	CP282	CP283	CP284											
90.	0.8789	0.8230 0.8222 0.7208	0.7064	0.5629	0.6675 0.6666 0.6041											

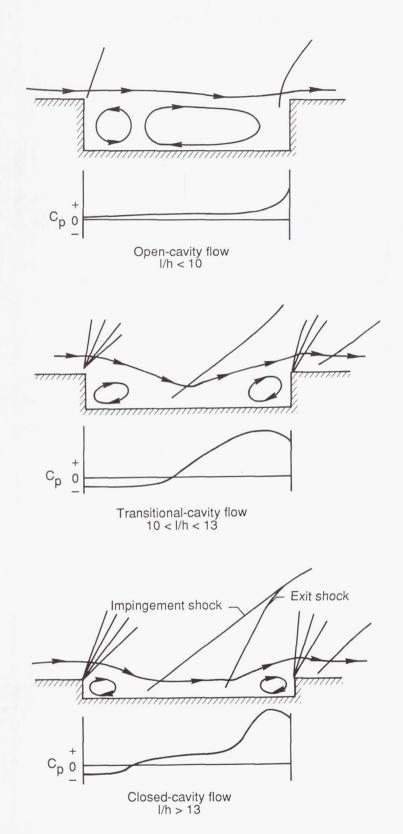


Figure 1. Sketches of cavity flow field models at supersonic speeds (ref. 4).

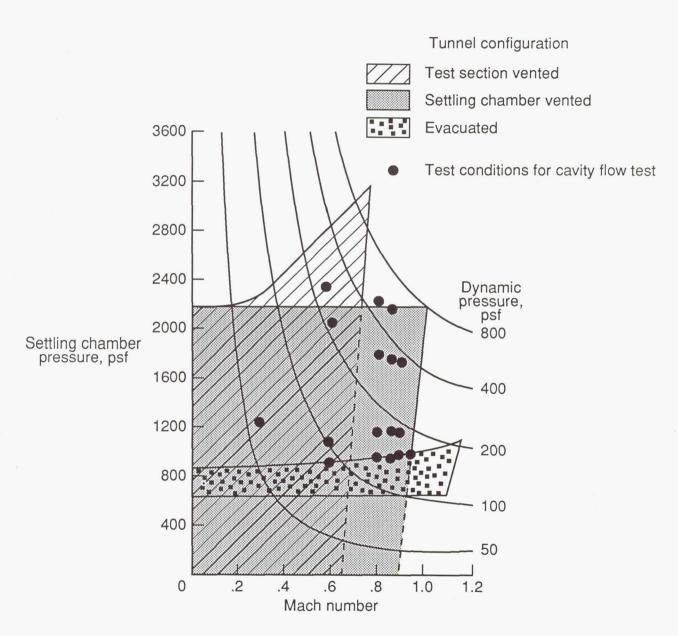


Figure 2. Operating conditions for DTRC 7- by 10-Foot TWT (ref. 19).

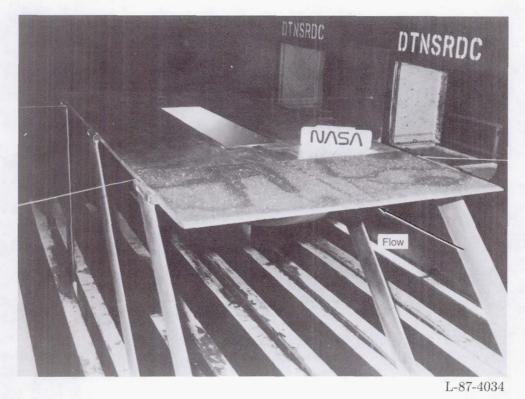


Figure 3. Transonic cavity flow model installed in DTRC 7- by 10-Foot TWT.

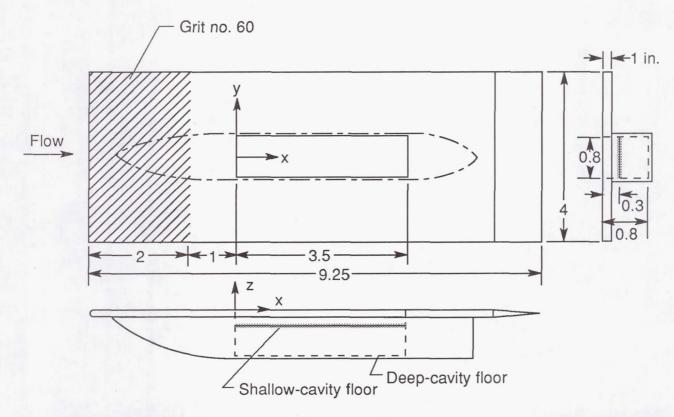
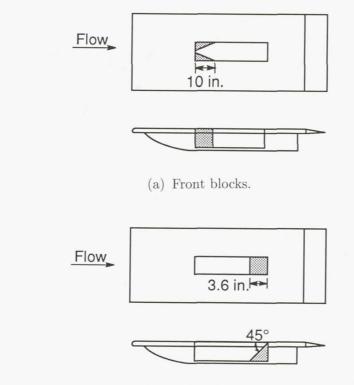
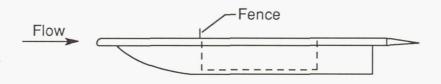


Figure 4. Schematic drawing of transonic cavity flow model. (All dimensions are in feet unless otherwise noted.)

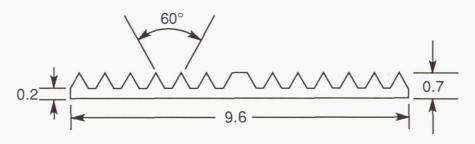


(b) Rear block (shallow cavity only).

Figure 5. Nonrectangular cavity configurations.



(a) Fence placement on model.



(b) Enlarged frontal view of fence.

Figure 6. Model configuration with leading-edge fence. (All dimensions are in inches unless otherwise noted.)

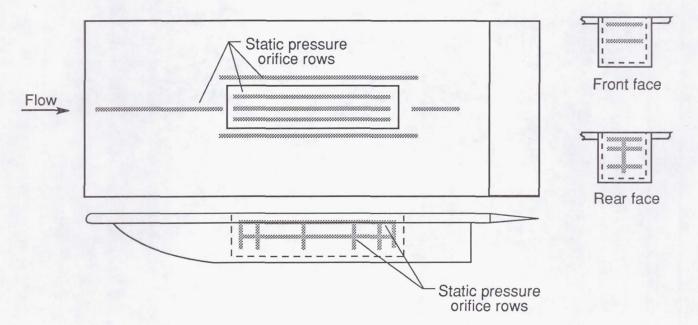


Figure 7. Static pressure orifice locations.

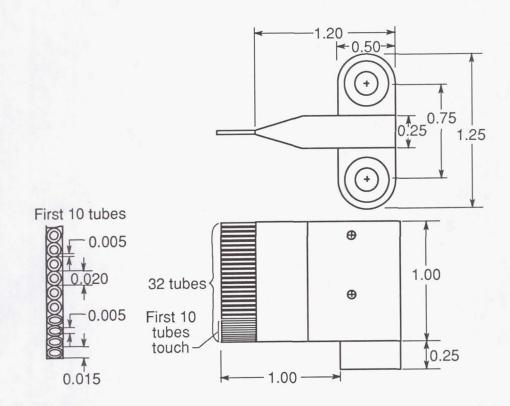
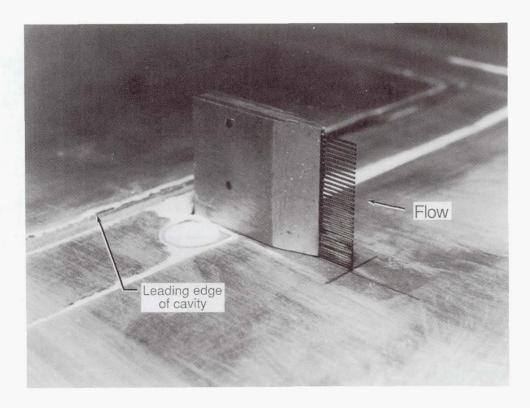


Figure 8. Schematic drawing of boundary-layer rake. (All dimensions are in inches.)



 $\label{eq:Figure 9.Boundary-layer rake installed on model.}$ 

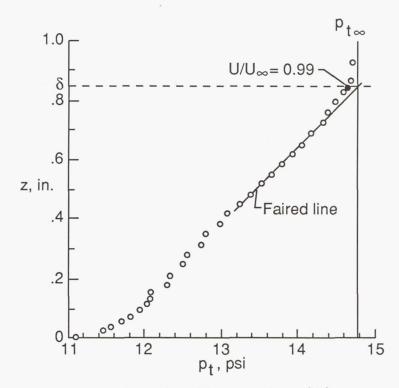


Figure 10. Estimation of boundary-layer thickness.

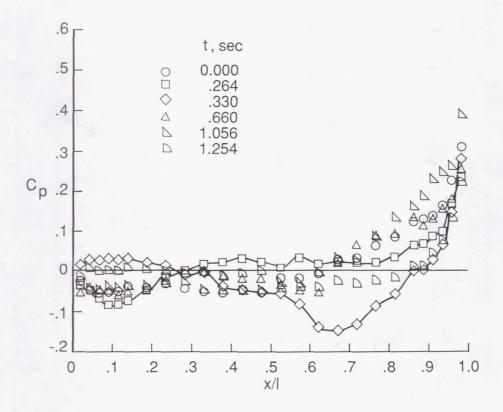


Figure 11. Variation of cavity floor centerline pressure distributions with time where l/h = 4.4,  $M_{\infty} = 0.60$ , and  $R_{\infty} = 3.5 \times 10^6$ . (Individual data samples are plotted.)

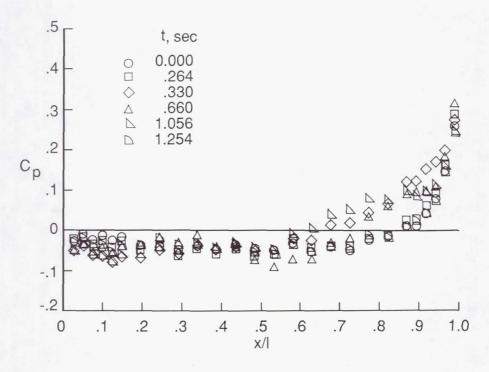


Figure 12. Variation of cavity floor centerline pressure distributions with time where l/h = 4.4,  $M_{\infty} = 0.60$ , and  $R_{\infty} = 1.6 \times 10^6$ . (Individual data samples are plotted.)

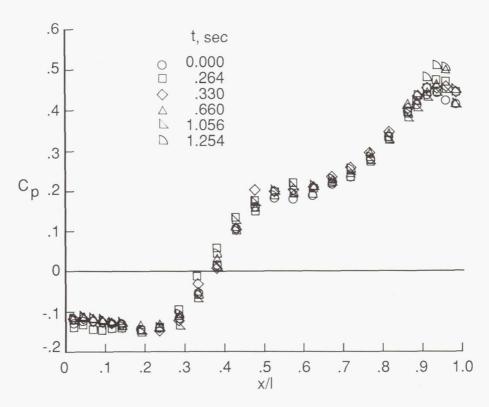


Figure 13. Variation of cavity floor centerline pressure distributions with time where l/h = 11.7,  $M_{\infty} = 0.60$ , and  $R_{\infty} = 3.5 \times 10^6$ . (Individual data samples are plotted.)

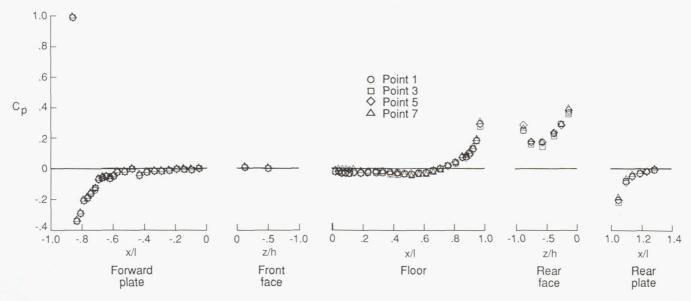


Figure 14. Repeatability of centerline pressure distributions where l/h = 4.4,  $M_{\infty} = 0.60$ , and  $R_{\infty} = 3.5 \times 10^6$ . (Each point is an average of 20 data samples.)

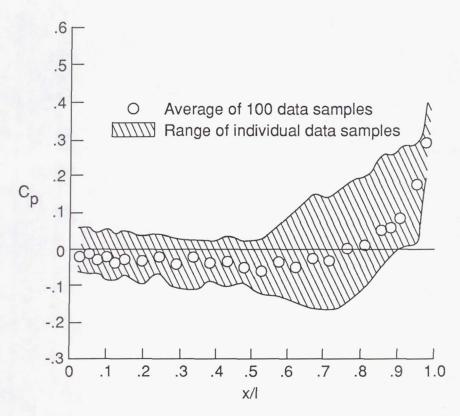


Figure 15. Range of static pressure measurements along cavity floor centerline where  $l/h=4.4,\ M_{\infty}=0.60,$  and  $R_{\infty}=3.5\times10^6.$ 

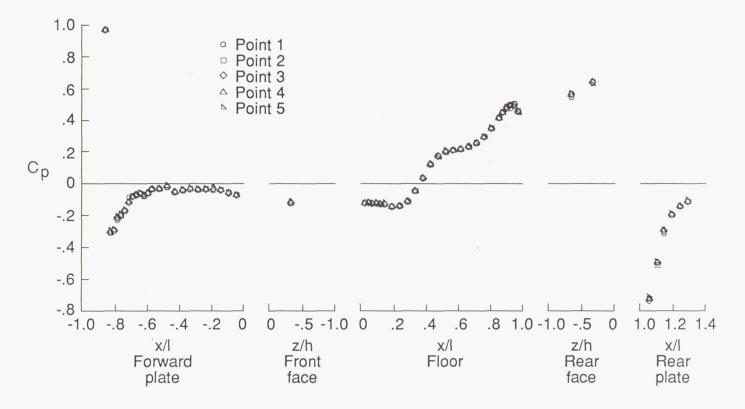


Figure 16. Repeatability of centerline pressure distributions where l/h = 11.7,  $M_{\infty} = 0.60$ , and  $R_{\infty} = 3.5 \times 10^6$ . (Each point is an average of 20 data samples.)

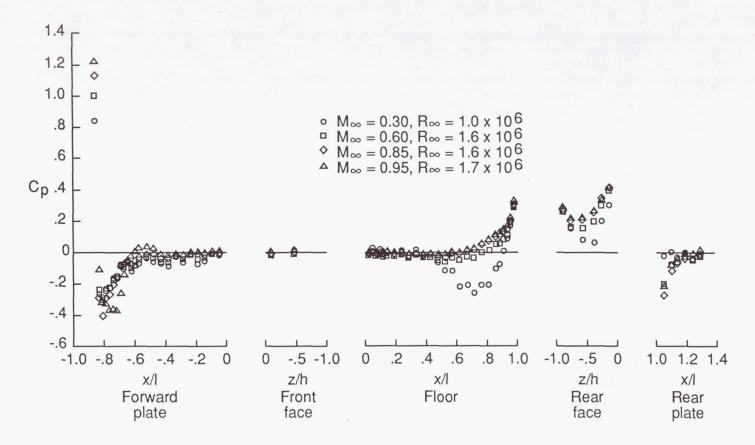


Figure 17. Effect of Mach number on centerline pressure distributions where l/h = 4.4. (An average of 100 data samples is plotted.)

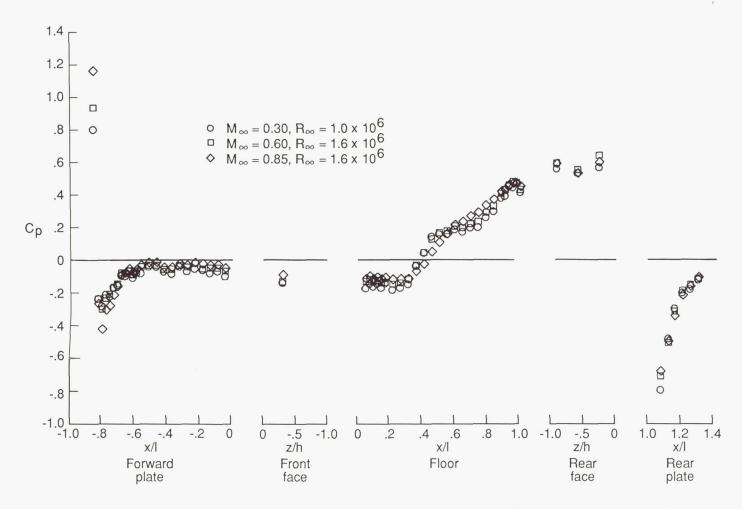


Figure 18. Effect of Mach number on centerline pressure distributions where l/h = 11.7. (An average of 100 data samples is plotted.)

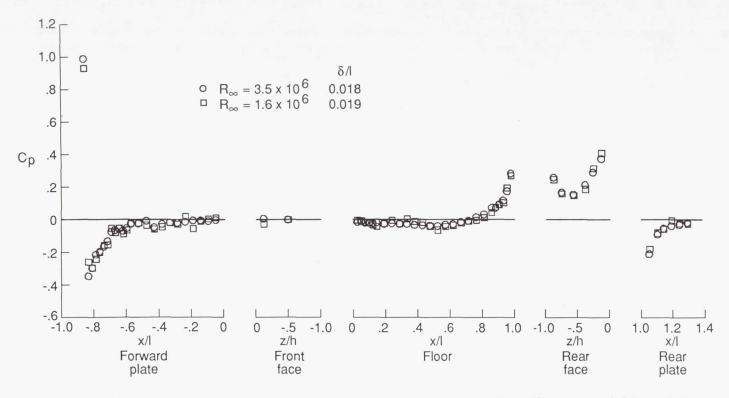


Figure 19. Effect of Reynolds number on centerline pressure distributions where l/h = 4.4 and  $M_{\infty} = 0.60$ . (An average of 100 data samples is plotted.)

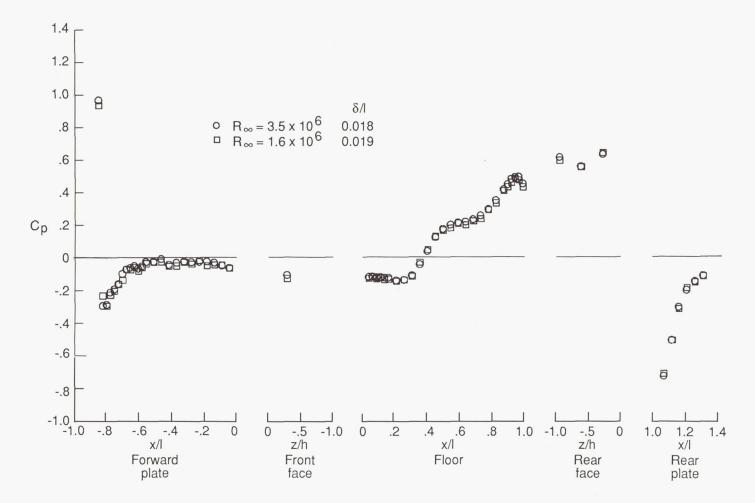


Figure 20. Effect of Reynolds number on centerline pressure distributions where l/h = 11.7 and  $M_{\infty} = 0.60$ . (An average of 100 data samples is plotted.)

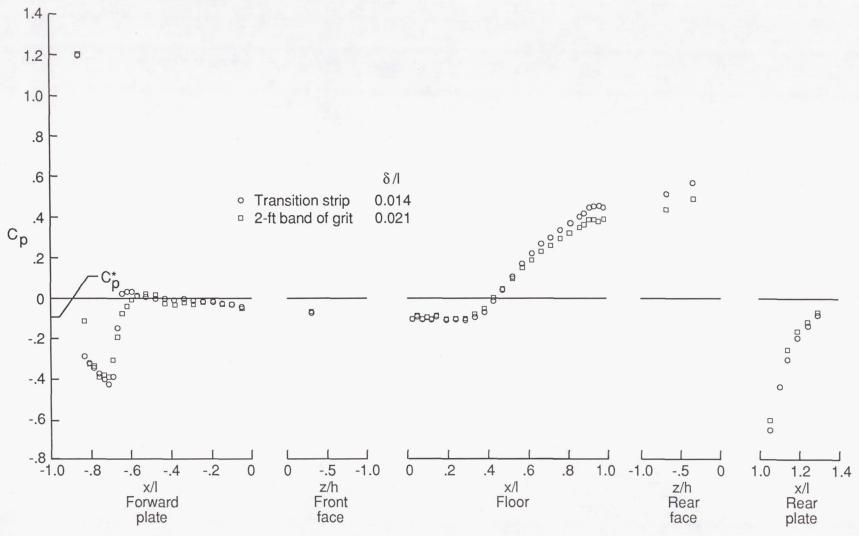
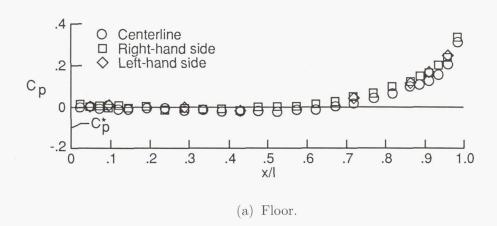


Figure 21. Effects of boundary-layer thickness on centerline pressure distributions where  $l/h=11.7,\ M_{\infty}=0.95,\ {\rm and}\ R_{\infty}=1.7\times 10^6.$  (An average of 100 data samples is plotted.)



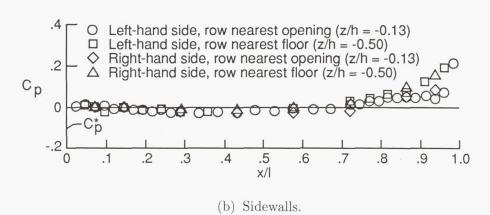
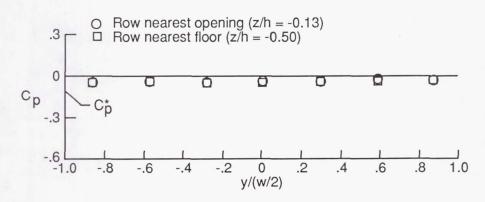
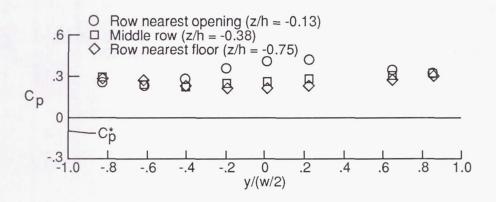


Figure 22. Comparison of cavity longitudinal pressure distributions where  $l/h=4.4,~M_{\infty}=0.95,~{\rm and}~R_{\infty}=1.7\times 10^6.$  (An average of 100 data samples is plotted.)

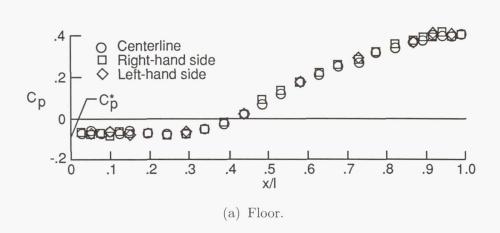


(a) Forward face.



(b) Rear face.

Figure 23. Comparison of cavity lateral pressure distributions where  $l/h=4.4,\ M_{\infty}=0.95,\ {\rm and}\ R_{\infty}=1.7\times 10^6.$  (An average of 100 data samples is plotted.)



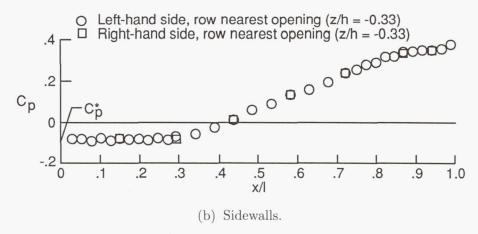
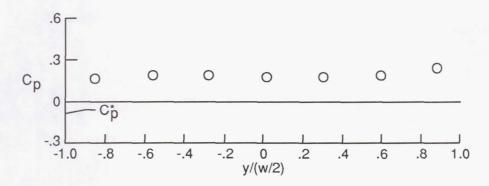
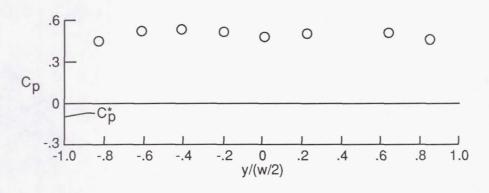


Figure 24. Comparison of cavity longitudinal pressure distributions where l/h = 11.7,  $M_{\infty} = 0.95$ , and  $R_{\infty} = 1.7 \times 10^6$ . (An average of 100 data samples is plotted.)



(a) Forward face (z/h = -0.33).



(b) Rear face (z/h = -0.33).

Figure 25. Comparison of cavity lateral pressure distributions where  $l/h=11.7,\ M_{\infty}=0.95,\ {\rm and}\ R_{\infty}=1.7\times 10^6.$  (An average of 100 data samples is plotted.)

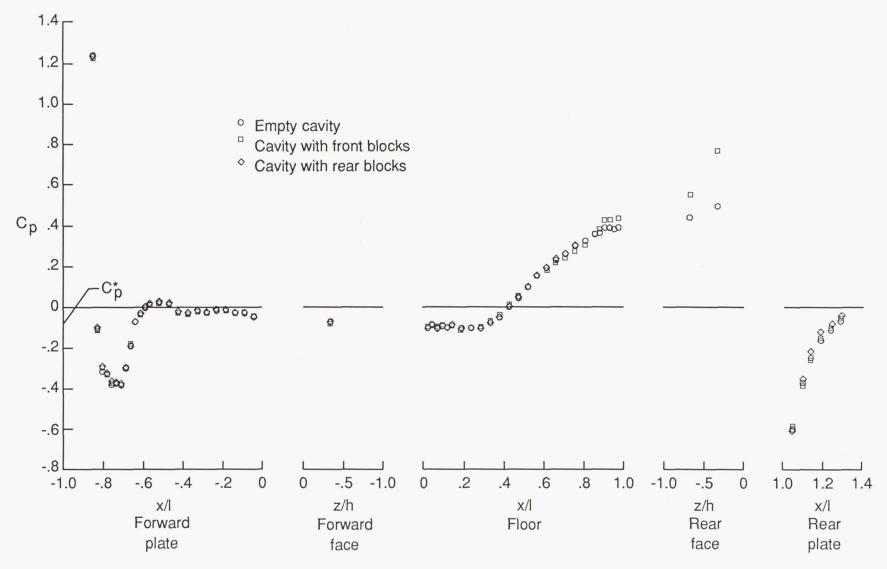


Figure 26. Effects of cavity shape on centerline pressure distributions where l/h = 11.7,  $M_{\infty} = 0.95$ , and  $R_{\infty} = 1.7 \times 10^6$ . (An average of 100 data samples is plotted.)

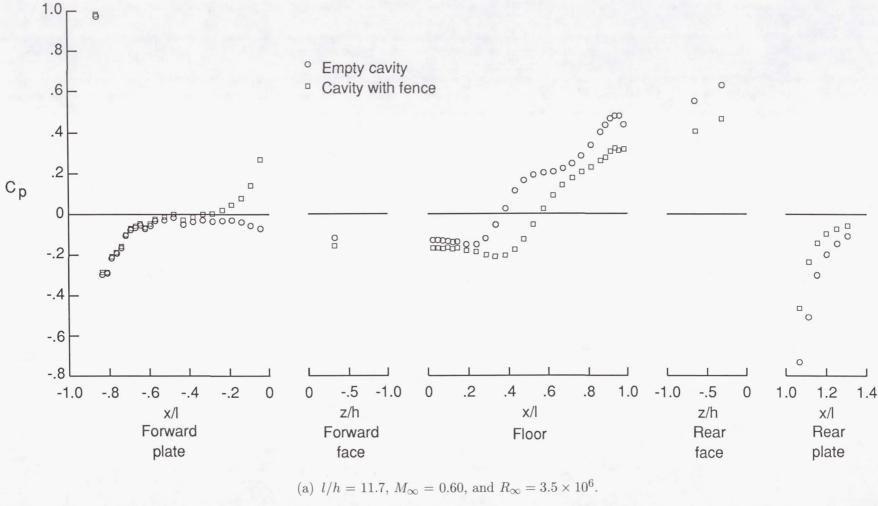
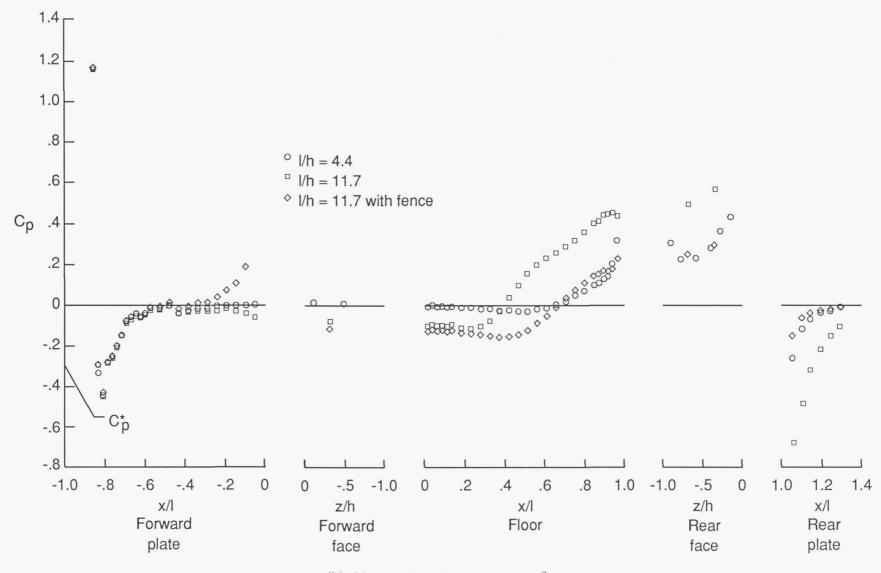


Figure 27. Effects of upstream fence on centerline pressure distributions. (An average of 100 data samples is plotted.)



(b)  $M_{\infty} = 0.85$  and  $R_{\infty} = 3.3 \times 10^6$ .

Figure 27. Concluded.

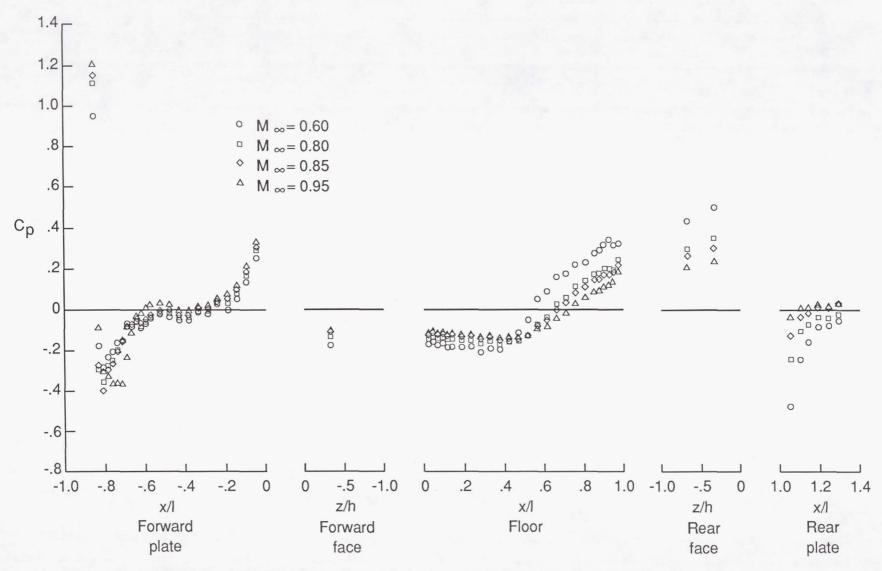


Figure 28. Effects of Mach number on centerline pressure distributions for cavity with fence where l/h = 11.7. (An average of 100 data samples is plotted.)

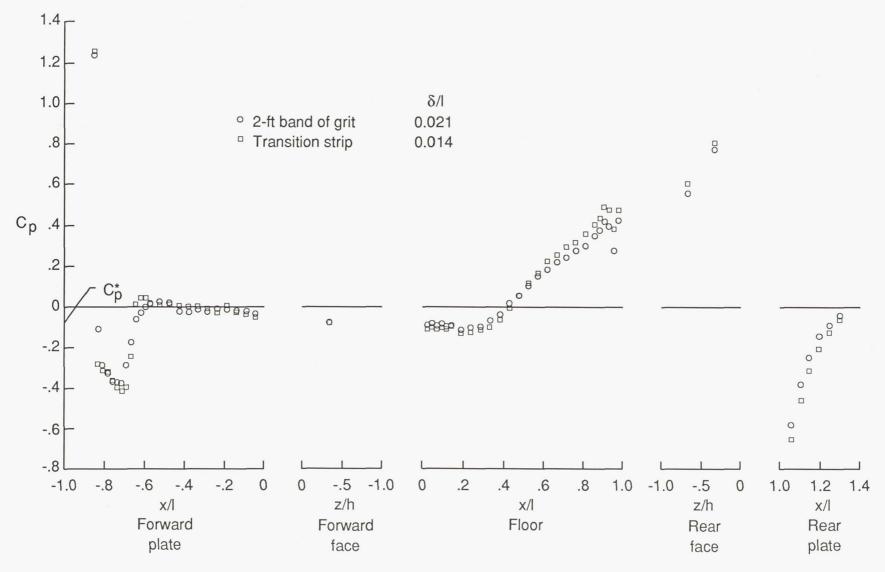


Figure 29. Effects of boundary-layer thickness on centerline pressure distributions for cavity with front blocks where l/h = 11.7,  $M_{\infty} = 0.95$ , and  $R_{\infty} = 1.7 \times 10^6$ . (An average of 100 data samples is plotted.)

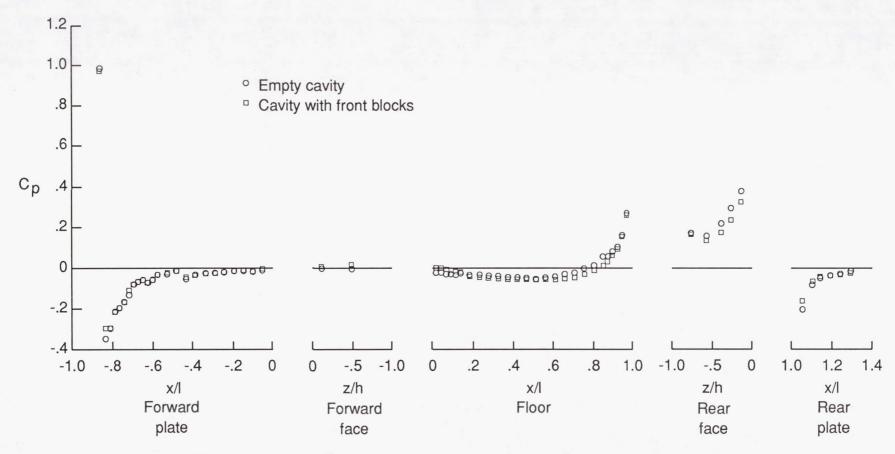


Figure 30. Effect of cavity shape on centerline pressure distributions where  $l/h=4.4,\ M_{\infty}=0.60,$  and  $R_{\infty}=3.5\times 10^6.$  (An average of 100 data samples is plotted.)

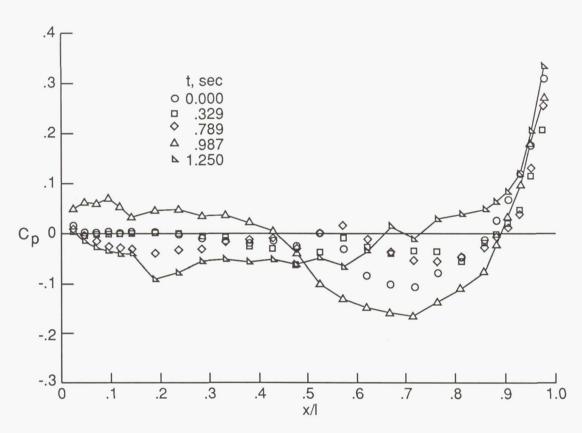


Figure 31. Variation of cavity floor centerline pressure distributions with time for cavity with front blocks where  $l/h=4.4,\,M_{\infty}=0.60,\,{\rm and}\,\,R_{\infty}=3.5\times10^6.$  (Individual data samples are plotted.)

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was tested over a Mach num $1.0 \times 10^6$ to $4.2 \times 10^6$ . Two significants with rectangular and nonrectable the model walls were obtained boundary layer approaching the pressure rake. The static pressure rake. The static pressure rake and for a less unsteadiness at lower R with the shallow cavity. Alteriating analyses at transonic from the shallow-cavity static pressure rate and for the shallow-cavity static pressure rate and for the shallow-cavity static pressure retains the cavity.	zes of cavities with length- angular cross sections were l, and a complete tabulation he cavity was turbulent, an sure measurements obtained greater than $3.0 \times 10^6$ per ll conditions tested with the eynolds numbers for the obtained shough mean static pressure- ee-stream conditions, the decous pressure distributions	to-height ratested. Extension of the preduction of the preduction of the thickness with the office of the shallow contains a state of the thickness of the shallow contains a state of the thickness of the thickn	ensive static pressure data are ess was measured eep-cavity contained and for all contained and for all contained and the eep ed in this report. The data also we have been also with the eat also with the element $l$ and	A and 11.7 and pressure data on presented. The red with a total infiguration (l/h ions during the a showed much proditions tested in used in past art indicate that so indicate that			
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